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FLAMMABILITY OF MATERIALS IN GASEOUS OXYGEN ENVIRONMENTS

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George C. Marshall Space Flight Center
Marshall Space Flight Center, Alabama

September 1973

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Astronautics Laboratory

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16. ABSTRACT

The results of evaluation of a wide variety of materials and configurations to determine their flammability characteristics in gaseous oxygen environments are reported. The data in this report are compiled to enable the designer to select materials applications that will meet the flammability requirements of MSFC SPEC 101B.

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TECHNICAL MEMORANDUM X-64783

FLAMMABILITY OF MATERIALS IN GASEOUS OXYGEN ENVIRONMENTS

BY

C.F. KEY, J.G. AUSTIN, J.W. BRANSFORD

SUMMARY

The results of test evaluations of a wide variety of materials and configuration test articles to determine their flammability characteristics in gaseous oxygen environments are reported.

The test methods and criteria are described in MSFC-SPEC-101B, "Flammability, Odor, and Offgassing Requirements and Test Procedures For Materials in Environments Which Support Combustion." The test requirements of MSFC-SPEC-101B are the same as those in NHB 8060.1, "Flammability, Odor, and Offgassing Requirements and Test Procedures For Materials in Environments that Support Combustion."

INTRODUCTION

This investigation was undertaken to support the Skylab Program and its purpose was to determine the flammability characteristics of engineering materials in the Skylab habitation environment.

Naturally, the factors to be considered in final selection of any material are dependent upon the service intended. Selection and evaluation of these factors will vary widely. Thus, it is not feasible to attempt to provide in this report all of the information necessary to assess fully the adequacy of a material for specific applications. However, unless extenuating circumstances exist, this Center will not approve the use of any materials rated as unsatisfactory unless it can be shown that the material in its use configuration/application meets the flammability requirements of MSFC-SPEC-101B or NHB 8060.1 Since the flammability characteristics of materials are usually thickness dependent, this Center will normally approve only materials rated as satisfactory or batch test in their use environments in the thickness evaluated or in thicker sections. Every effort should be made to use only non-combustible materials.

DISCUSSION

PLASTICS, ELASTOMERS, ADHESIVES AND CASTINGS - TABLE I

A wide variety of sheet type materials were evaluated for flammability in enriched oxygen. The most consistent satisfactory sheet type materials are highly fluorinated materials and the polyimide plastics.

The variations in flammability characteristics of most organic type materials with respect to ignitors, oxygen concentration, composition thickness and sample orientation were also studies during this program.

Ignitor Effects - 3 ignitor systems were used to evaluate the flammability of materials. The first ignitor consisted of an energized nichrome wire. The second ignitor considered was a nichrome wire with a paper stick inserted in the coils. The third ignitor consisted of a nichrome wire coil with a silicone rod inserted in the coil.

The severity of these various ignition sources was evaluated in a test program by subjecting thirty materials of varying thicknesses to each of these ignitors in a 6.2 psia 100% oxygen environment. The materials were all evaluated as sheet materials held in vertical position and ignitors placed at the bottom. The results of this study are evaluated in Figure 1.

It is evident that the silicone ignitor is more severe than either the paper stick or nichrome ignitors. As expected, the paper stick ignitor is more severe than the nichrome ignitor and less severe than the silicone ignitor. It is also evident from this study that an increase in sample length is required for evaluation and comparison of the flammability characteristics of materials.

Flame Propagation Rates in Various Atmospheres - Figure 2 illustrates the increased flammability hazard as a function of pressure in 100% O_2 It is readily seen that flame propagation rates increase drastically as pressure is increased.

Effect of Chemical Composition

The flammability characteristics of organic materials are functions of chemical compositions and thicknesses. Figures 5 and 6 are comparisons of this effect. Polyethylene is highly flammable, but as fluorine is introduced into the parent compound, the flammability is reduced (top ignition).

It is well-known that processing additives and fillers affect LOX compatibility of materials; therefore, it is not surprising that these additives and fillers affect flammability of materials. Shown in Figure 6 are the variations of flame propagation rates of various polyurethanes with different cure agents and additives.

Effect of Thickness

The data tabulated in Figure 3 indicate there are basically two types of materials. One type (cellulose, butyrate, polycarbonates, etc.) is flammable (100 percent oxygen at 6 psia) in all thicknesses; whereas, for the other type of material (highly fluorinated and polyimide laminate), a thickness has been detected at which, for all practical purposes, is nonflammable.

Sample Orientation

Tabulated in Figure 4 are the results of sample orientation on flame propagation rates. It is readily seen that the burning characteristics of materials are affected by the sample orientation.

ELECTRICAL WIRE & POTTING COMPOUNDS - TABLE II

A wide variety of wire harnesses, connectors, and potting compounds were evaluated in 100% O_2 @ 6 2 psi during this program. The most satisfactory solution to the flammability problem of electrical wire harnesses and cables is to encase them in metal conduit or use nonflammable cable composites. Several methods or configurations are used in Skylab to accomplish this. Listed in Table II are configuration composites of electrical cable that meets the flammability requirements.

The most satisfactory method of alleviating the flammability hazard in enriched oxygen of potting compounds is to use double Beta bags as covers over the potting material. Single Beta bags do not afford protection from both outside and inside ignition sources.

CONFIGURATION TESTS - TABLE III

Listed in Table III are configuration tests conducted during this program. It was impractical to specify all required information of these configuration tests; therefore, the Usage Agreement, Test Request, or P0327, specified for each item should be requested of further information is required. Many tests of panels and made-up boards had the potting material as an important integral unit of component integrity. The third type (Table III) consists of data on configuration. One important group of these assemblages are electrical harnesses. A typical harness configuration would consist of several Teflon insulated wires (single conductors) 16-20 gauge, shielded, and connected and potted via appropriate feed-throughs, thence the entire assemblage encased within fiberglass sleeving. Finally, the completed assemblage is contained inside a convoluted tubing of Teflon, or approved equal, which serves both as protective envelope and flexible container. Complete identification of configuration samples can be obtained from Materials Division.

The principle ignitor mode for electrical assemblages is the power overload, per Test No. 4 and Test No. 5. Assemblages requiring external ignition sources are ignited in the same manner as the sheet materials described in MSFC Specification 101-B.

Design of Electronic Black Boxes

Extensive test evaluation of electronic black boxes for flammability hazards was conducted by both MSFC and MSC. This test evaluation was necessitated by the fact that most materials (conformal coatings, printed circuit boards, potting compounds, etc.), are highly flammable in enriched oxygen environments. There are a number of "do's" and "don'ts" that should greatly reduce the number of configuration tests required for flammability. They are as follows:

1. Box should be constructed of metal 0.080" or thicker.
2. Box should be designed with compartments such that no propagation paths exist.
3. Cover should be flange type with screws spaced 1 1/2" apart maximum.
4. Vents or lightening holes in boxes should be restricted to 1/4 inch dia. maximum and 8 in number.
5. Only flame resistant printed circuit board material should be used.

6. The test reports listed in this report and those generated by W.S.T.F. should be used in conjunction with design to insure proper construction for flammability criteria.

7. Highly flammable materials such as polyurethane foams and nylon should be kept to a minimum.

8. Design should take into consideration void volume vs flammables used to insure no explosive potential exists.

CONCLUSIONS

The data in this report are primarily the results of test evaluation conducted in enriched oxygen environments. The extrapolation of these data for use in air environments at 14.7 psia is permissible with the following guidelines.

1. Any material or material application rated satisfactory or batch tested in enriched oxygen, would be satisfactory for use in air at 14.7 psi in the same thickness or in thicker sections.

2. Thinner sections of the materials should be evaluated to insure they are satisfactory.

3. Many of the materials listed unsatisfactory in this report may be satisfactory for use in air at 14.7 psia.

As stated earlier, the data listed in Table I through III are specifically oriented in support of the Skylab Program which utilizes an enriched oxygen environment (70% O_2 - 30% N_2 @ 6 psia). The new generation of Shuttle payloads will have as their environment, air at 14.7 psia. Obviously many materials and electronic modules will meet the flammability criteria in air at 14.7 psia. Materials in the thicknesses intended for use or thinner which meet the FAA or Underwriters Laboratories requirements should propose no problems in air at 14.7 psia from a flammability standpoint. However, these materials should be evaluated for toxicity and odor.

The information generated from this program should greatly curtail the test evaluations of black boxes (electronics modules) and provide the same safety assurance as in Skylab at a greatly reduced cost.

MATERIAL	THICKNESS, (INCH)	RESULTS		
		IGNITER		
		NICHROME WIRE	SILICONE	PAPER STICK
Fluorogreen E-600	0.012	NI	BC	-
Fluorogreen E-600	0.070	NI	SE (1/2" to 1")	SE (1/2")
Refset 3489	0.008	NI	SE (1-1/2" to 3")	SE (1/2" to 1")
Dodge M385-10	0.010	NI	BC	SE (4")
Armalon 95049	0.008	NI	SE (3")	SE (2-1/2")
Dodge Fibers E-650	0.060	NI	SE (1/2")	SE (1/2" to 1/4")
L-3217-1	0.080	NI	BC (3-1/2")	BC
Teflon Coated Aluminum Foil	0.003	NI	SE (1/2")	SE (1/2")
L-3203-6 Fluorel Elastomer	0.032	NI	BC	BC
L-3203-6 Fluorel Elastomer	0.125	NI	SE (1/2")	NI
L-3203-6 Fluorel Elastomer	0.068	NI	SE (1/2" to 3/4")	SE (1/8" to 1/4")
Mosite 1059	0.080	NI	BC	BC
L-3217	0.072	NI	BC	BC
Pyralin 1037 (Polyimide Glass Cloth)	0.037	NI	SE (1/2")	SE (1/2")
Pyraline 1037 " "	0.057	NI	SE (1/2")	SE (1/4")
20247-3	0.010	NI	SE (1/4")	NI
Micatex Beige	0.003	NI	BC	BC
Micatex Blue	0.003	NI (1")	SE (3")	SE (1-1/2")
Teflon TFE	0.312	SE (1")	NI	NI
Teflon FEP	0.250	SE (1/2")	SE (1/4")	SE (1/4")
Teflon TFE	0.250	SE (3")	NI	NI
Duroid 5600 (Ceramic Filled Teflon)	0.016	NI	BC (5-3/4")	SE 3-3/4")
Viton 238-26-1	0.075	NI	BC	BC
Viton 238-12-1	0.075	NI	BC	BC
Mosite 1077	0.075	NI	SE (1-1/2")	SE (1" to 2")
Paper 1142-F	0.002	SE (1/2" to 2")	BC (3")	SE (2")
Refset L-3236, Style 3764-1	0.090	NI	SE (3")	SE (1/4")
Refset L-3236, Style 3764-0	0.070	NI	BC	BC (1")
Refset L-3236, Style 3764-2	0.058	NI	BC	BC
Refset L-3236, Style 3766-3	0.020	NI	BC	BC

NI = No Ignition
SE = Self-Extinguishing
BC = Burned Completely

Figure 1. Igniter evaluation program
(Bottom ignition, 6.2 psia, 100 percent 0_2)

TOP IGNITION

	AIR	5 PSIA	10 PSIA	13 PSIA
ADIPRENE L-167	SE	19 in/min	26 in/min	31 in/min
BUTYL RUBBER	SE	3.2	6.0	8.2
HYPALON	SE	2.2	3.1	3.6
NARMCO 7343	SE	12.4	21.3	26.0
NATURAL RUBBER	SE	4.1	5.3	6.2
POLYACRYLATE	SE	3.3	6.3	7.2
POLYURETHANE FOAM	SE	504	664	1110
PR-1527	SE	18	20	32

Figure 2. Propagation rate vs. pressure in 100 percent 0_2.

TWO CLASSES OF MATERIALS (6.2 PSIA 100% 0_2)

FLAMMABLE IN ALL THICKNESSES BUT FLAME PROPAGATION RATES INVERSELY PROPORTIONAL TO THICKNESS.

(1) CELLULOSE BUTYRATE (GENERALLY NON-HALOGENATED)

5 MILS	93 INCH/MINUTE
10 MILS	60 INCH/MINUTE
50 MILS	35 INCH/MINUTE
80 MILS	24 INCH/MINUTE
250 MILS	10 INCH/MINUTE

(2) NON-FLAMMABLE IN CERTAIN THICKNESSES (GENERALLY HIGHLY HALOGENATED)

TEFLON TFE	312 MILS
TEFLON FEP	250 MILS
REFSET-L3236	90 MILS
TEFLON COATED FIBERGLASS	10 MILS
L3203-6	60 MILS
KEL-F	250 MILS
POLYIMIDE LAMINATES	40 MILS

1. * Top ignition,
2. Bottom ignition

Figure 3. Thickness effects.

SAMPLE THICKNESS 0.060 INCHES

FLAME PROPAGATION RATE - INCH/MINUTE 100% O_2 05.2 PSIA

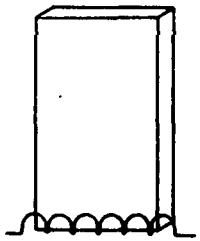
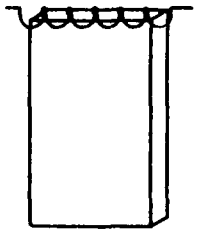
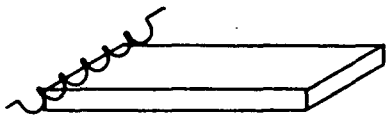
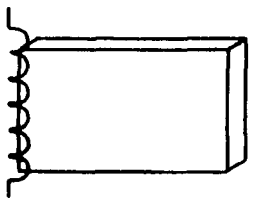
	ABS RESIN	SILICONE	ACRYLIC
	48	8.2	19.5
	9.2	3.4	6.1
	14.9	3.1	10.7
	6.5	2.1	6.1

Figure 4. Sample orientation.

MATERIAL	COMPOSITION	FLAME PROPOGATION RATE
POLYETHYLENE	$-(CH_2 - CH_2)_N-$	18 INCH/MINUTE
POLYVINYL FLUORIDE	$-(CH_2 - CFH)_N-$	16 INCH/MINUTE
POLYVINYLIDENE FLUORIDE	$-(CF_2 - CH_2)_N-$	3.0 INCH/MINUTE
CHLOROTRIFLUOROETHYLENE	$-(CF_2 - CFCl)_N-$	SE
TETRAFLUOROETHYLENE	$-(CF_2 - CF_2)_N-$	NI
FLUOROETHYLENE PROPYLENE	$-(CF_2 - CF_2 - CF_2 - CF)_N-$ CF_2	NI

100% O_2 - 6 psia

Figure 5. Chemical composition (Top ignition - five mils thick).

MATERIAL		FLAME PROPAGATION RATE
FOAM (0.500 in)	-	405 INCH/MINUTE
CPR 20-3 (0.500 in)	-	372 INCH/MINUTE
URALANE 577-1	-	36 INCH/MINUTE
PR-1538 (0.188 in)	-	18.6 INCH/MINUTE
NARMCO 7343 (0.188 in)	-	12.4 INCH/MINUTE
DYNATHERM D-65 (0.188 in)	-	11.4 INCH/MINUTE

TOP IGNITION - (6 PSIA)

Figure 6. Polyurethanes - flame propagation rates in 100 percent oxygen.

TABLE I. FLAMMABILITY OF PLASTICS, ELASTOMERS, COATINGS, FABRICS, AND OTHER SHEET MATERIALS

Material Description, Assemblage, Etc.	Manufacturer or Source	Test No.	Composition and/or Remarks	Thickness (Inch)	Ignitor	GOX		Flame Propagation Rate Inches/Minute*		Materials Rating**	
						%	psia	Top Ignition	Bottom Ignition	Type I	Group I
Ablebond 163-3 on 1 Mil Foil	Ablestik Adhesive Company	1796	Structural Conductive Adhesive	0.012	101A	100	6.2		BC	U	U
Abakyn Polyplastic	Polyplastic United, Inc.	1244	Polyplastic	0.130	101A	100	6.2		BC - 0.014	U	U
Acetal Resin, Delrin AF w/Teflon Fiber		2025	Photoplate Holder	0.080	101A	100	6.2		BC	U	U
Aclar Type 35C	Allied Chemical Corporation	-		0.005	101A	100	6.2	SE	BC - 16.06	U	U
Adiprene L-167	E. I. du Pont de Nemours & Company	-	Polyurethane	0.188	101A	100	6.2	19.2	—	U	U
Aerfilm 15-619R	John Schneller, Inc.	1247		0.015	101A	100	6.2		BC - 0.35	U	U
Adhesive Type 64CP on 1 Mil Foil	Transonic, Inc.	1796		0.004	101A	100	6.2		NI	S	S
Albi Fire Resistant Paint No. 144	Albi Manufacturing Company	1069	Applied to 1-mil aluminum foil	0.003	101A	100	6.2		BC - 180.0	U	U
Albi Fire Resistant Paint No. 107A	Albi Manufacturing Company	1068	Applied to 1-mil aluminum foil	0.003	101A	100	6.2		BC - 180.0	U	U
Albi-Clad Mastic Spray on Flameproofing	Albi Manufacturing Company	1644	Fire Proofing Material	0.063	101A	100	6.2		BC	U	U
Aluminum Adhesive Tape Y9040	Minnesota Mining & Manufacturing Company	826		0.005	101A	100	6.2	97.2	—	U	U
Aluminum Alloy 2014-T6		1586	Aluminum Alloy	0.032	101B	100	6.2		NI	S	S

* BC = Burned Completely; NI = No Ignition; SE = Self-Extinguishing

** U = Unsatisfactory; S = Satisfactory; BT = Batch Test

TABLE I. FLAMMABILITY OF PLASTICS, ELASTOMERS, COATINGS, FABRICS, AND OTHER SHEET MATERIALS (Continued)

Material Description, Assemblage, Etc.	Manufacturer or Source	Test No.	Composition and/or Remarks	Thickness (Inch)	Ignitor	GOX		Flame Propagation Rate Inches/Minute		Materials Rating	
						%	psia	Top Ignition	Bottom Ignition	Type I	Group I
Aluminum Honeycomb Panel	U. S. Plywood Corporation	1241		0.375	101A	100	6.2		NI	S	S
Aluminum Honeycomb 1/4" Faced one side w/alodined aluminum and one side w/vinyl clad aluminum (Beige)	U. S. Plywood Corporation	1242	Vinyl	0.313	101A	100	6.2		BC Vinyl Side	U	U
Aluminum Honeycomb 1/4" Faced w/wood grained vinyl clad - Aluminum on other side	U. S. Plywood Corporation	1243	Vinyl	0.313	101A	100	6.2		BC Vinyl Side	U	U
Aluminized Mylar NRC		204	Polyester-Aluminum	1/2 Mil	101A	100	1.5		BC	U	U
Aluminized Mylar (Double Aluminum)		206	Polyester-Aluminum	1/4 Mil	101A	100	1.5	BC	BC	U	U
Aluminum Foil	Kaiser Aluminum Company	877		0.001	101A	100	6.2		NI	S	S
Aluminum 2024-T3	Kaiser Aluminum Company	1685	Aluminum Alloy	0.010	101B	100	6.2		NI	S	S
Aluminum Foil Anodized	Metallic Materials Branch, MSFC	1007	Sulfuric acid, anodized, dyed with Sandoz Aluminum Gold B, nickel acetate sealed	0.003	101A	100	6.2		NI	S	S
Armalon 97-001	E. I. du Pont de Nemours Co., & Inc.	1805	Teflon Impregnated Fiberglass	0.011	101A	100	6.2		BC	U	U
Armalon 95049, TFE Coated Beta Sleeve	E. I. du Pont de Nemours Co., & Inc.	1674	Teflon Impregnated Fiberglass	0.008	101B	100	6.2		BC	U	U
Armalon Glass TFE Coated 97001A	E. I. du Pont de Nemours Co., & Inc.	471		0.012	101A	100	6.2	6.3	BC - 34.2	U	U

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TABLE I. FLAMMABILITY OF PLASTICS, ELASTOMERS, COATINGS, FABRICS, AND OTHER SHEET MATERIALS (Continued)

Material Description, Assemblage, Etc.	Manufacturer or Source	Test No.	Composition and/or Remarks	Thickness (Inch)	Ignitor	GOX		Flame Propagation Rate Inches/Minute		Materials Rating	
						%	psia	Top Ignition	Bottom Ignition	Type I	Group I
Armalon TFE coated Glass Fabric 410-128	E. I. du Pont de Nemours & Company	343		0.010	101A	100	6.2	NI	SE	BT	BT
Astro Quartz	J. P. Stevens & Company	423		0.020	101A	100	6.2	NI	BC NI	BT	BT
Ben-Har Lacing Tape TG25	Bentley Harris Manufacturing Company	540		0.014	101A	100	6.2	5.3	22.2	U	U
Beta Cloth with Acrylic Sizing	Non-Metallic Materials Branch, MSFC	390	Heat cured for 1 hour at 700° F	0.001	101A	100	6.2	—	NI	BT	BT
Beta Cloth, Aluminum Foil, Beta Cloth Composite	Manned Spacecraft Center	388		0.016	101A	100	6.2	—	NI	BT	BT
Beta Cloth, Kel-F, Beta Cloth Composite	Manned Spacecraft Center	387		0.020	101A	100	6.2	—	NI	BT	BT
Beta Cloth, Gold Dyed, Style 3468	Hess & Goldsmith Corporation	1047	Style 270-2-1	0.005	101A	100	6.2	—	NI	BT	BT
Beta Cloth, Yellow Dyed, Style 3468	Hess & Goldsmith Corporation	1049	Style 270-2-2	0.005	101A	100	6.2	—	NI	BT	BT
Buna N, Compound RA-344-60BN	Non-Metallic Materials Branch, MSFC	356		0.074	101A	100	6.2	8.3	BC - 19.8	U	U
Buna N, Compound RA-346-70BN (60-143)	Non-Metallic Materials Branch, MSFC	403		0.073	101A	100	6.2	4.20	—	U	U
Butyl Rubber, Compound RA-257-7013 (30-163)	Non-Metallic Materials Branch, MSFC	396		0.080	101A	100	6.2	4.60	—	U	U
Butyl Rubber, Compound RA-360-70CB (45-153)	Non-Metallic Materials Branch, MSFC	267		0.075	101A	100	6.2	3.00	—	U	U

TABLE I. FLAMMABILITY OF PLASTICS, ELASTOMERS, COATINGS, FABRICS, AND OTHER SHEET MATERIALS (Continued)

Material Description, Assemblage, Etc.	Manufacturer or Source	Test No.	Composition and/or Remarks	Thickness (Inch)	Ignitor	GOX		Flame Propagation Rate Inches/Minute		Materials Rating	
						%	psia	Top Ignition	Bottom Ignition	Type I	Group I
Buna-N Rubber	Marshall Space Flight Center	1879	Buna-N Rubber	0.060	101A	Air	14.7		NI	S	S
Cat-A-Lac Epoxy, Top Coat Resin 463-3-8, Batch 9704; Primer 463-6-5, Batch 9138, 1 Mil on 0.016" Aluminum Foil	Wornow Processing Company	1917-5	Epoxy Coating	1 Mil	101B	70	6.2		NI	S	S
Cat-A-Lac Epoxy, Top Coat Resin 463-3-8, Batch 9704; Primer 463-6-5, Batch 9138, 1 Mil on 0.016" Aluminum Foil (Retest)	Wornow Processing Company	1919-5	Epoxy Coating	1 Mil	101B	70	6.2		NI	S	S
Cat-A-Lac 463-3-100 Flat White Epoxy Amine, 1 Mil on 0.016" Aluminum	Wornow Processing Company	1907-5	Epoxy Coating	1 Mil	101B	70	6.2		NI	S	S
Cat-A-Lac 463-3-100 Flat White Epoxy Amine, 1 Mil on 3 Mil Foil	Wornow Processing Company	1908-5	Epoxy Amine	1 Mil	101B	70	6.2		SE	U	BT
Cat-A-Lac Epoxy Primer 463-6-5, Batch 9138 1 Mil on 3 Mil Foil	Wornow Processing Company	1923-5	Epoxy Coating	1 Mil	101A	70	6.2		BC - 51.7	U	U
Cat-A-Lac Epoxy Primer 463-6-5, Batch 9138, 1 Mil on 3 Mil Foil	Wornow Processing Company	1924	Epoxy Coating	1 Mil	101B	70	6.2		BC - 43.3	U	U
Cat-A-Lac Epoxy Primer, 463-6-5, Batch 9138, 1 Mil on 3 Mil Foil (Retest)	Wornow Processing Company	1925-5	Epoxy Coating	1 Mil	101B	70	6.2		BC - 47.2	U	U
Cat-A-Lac Epoxy Primer, 463-6-5, Batch 9138, 1 Mil on 3 Mil Foil (Retest)	Wornow Processing Company	1926-5	Epoxy Coating	1 Mil	101B	70	6.2		BC - 36.0	U	U

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TABLE I. FLAMMABILITY OF PLASTICS, ELASTOMERS, COATINGS, FABRICS, AND OTHER SHEET MATERIALS (Continued)

Material Description, Assemblage, Etc.	Manufacturer or Source	Test No.	Composition and/or Remarks	Thickness (Inch)	Ignitor	GOX		Flame Propagation Rate Inches/Minute		Materials Rating	
						%	psia	Top Ignition	Bottom Ignition	Type I	Group I
Caulk Cement on 1 Mil Foil	L. D. Caulk Company	1814	Dental Cement	1 Mil	101A	100	6.2		BC - 21	U	U
Caulk Compound, Non-Burning, RI-3550 on 1 Mil Foil	Raybestos Manhattan Company	111	Fluorocarbon	5 Mil	101B	100	6.2		NI	S	BT
Chemseal 3547 (Clear)	Chemseal Corporation	1094	Modified Polyurethane w/Filler and Fire Retardant	1 Mil	101A	100	6.2		BC - 40.2	U	U
Chemseal 3547 (Clear)	Chemseal Corporation	1096		0.100	101A	100	6.2	31.8	BC - 48.0	U	U
Cho-Seal 1215	Chromerics, Inc.	1800	Conductive Sealant	0.032	101A	100	6.2		BC	U	U
Cotton		2057	Cellulose	0.056	101A	100	6.2		BC	U	U
Cox No. 28 Adhesive No. 00088 (Springfon Foil)		140		0.020	101A	100	6.2		BC - 12.3	U	U
Churchill 3C-907 Black	Churchill Chemical Corporation	1082		0.080	101A	100	6.2	14.4	BC - 15.6	U	U
CNR Rubber	Thiokol Chemical Company	386		0.032	101A	100	6.2	–	NI	BT	BT
CNR Putty, Compound	Thiokol Chemical Company	1014		0.006	101A	100	6.2	–	NI	BT	BT
CNR Coated Beta Cloth	Thiokol Chemical Company	1026		0.006	101A	100	6.2	NI	NI	BT	BT
Coast Proseal 796-65	Coast Proseal Corporation	1099		0.090	101A	100	6.2	19.8	BC - 33.0	U	U
Coast Proseal 796-80 Black	Coast Proseal Corporation	1103		0.090	101A	100	6.2	24.0	BC - 42.6	U	U
Conothane 3000	Conap, Incorporated	–	Polyurethane	0.190	101A	100	6.2	20.7	–	U	U
Cork Style 7326	Armstrong Cork Company	488		0.490	101A	100	6.2	187.8	BC - 372.0	U	U

TABLE I. FLAMMABILITY OF PLASTICS, ELASTOMERS, COATINGS, FABRICS, AND OTHER SHEET MATERIALS (Continued)

Material Description, Assemblage, Etc.	Manufacturer or Source	Test No.	Composition and/or Remarks	Thickness (Inch)	Ignitor	GOX		Flame Propagation Rate Inches/Minute		Materials Rating	
						%	psia	Top Ignition	Bottom Ignition	Type I	Group I
CPR 20-3 Foam	Chemical Plastics Research International Corporation	–	Polyurethane	0.500	101A	100	6.2	372.0	–	U	U
CPR 369-3 Foam	Chemical Plastics Research International Corporation	–	Polyurethane	0.500	101A	100	6.2				
CPR-11-2 Foam Insulation	Upjohn Company	1656	Polyurethane	1.0	Torch	Air	14.7		SE	U	BT
Cycolact	Marbon Chemical Corporation	2018-21	Styrene	0.125	101A	28-70	6.0-11.7		BC	U	U
Cycolact	Marbon Chemical Corporation	1872	Styrene	0.063	101A	Air	14.7		BC	U	U
Cycolac H-4001 Black	Marbon Chemical Corporation	702	ABS resin	0.005	101A	100	6.2	39.00	–	U	U
Cycolac H-4001 Black	Marbon Chemical Corporation	699	ABS resin	0.010	101A	100	6.2	22.2	–	U	U
Cycolac H-4001 Black	Marbon Chemical Corporation	696	ABS resin	0.020	101A	100	6.2	13.8	–	U	U
Cycolac H-4001 Black	Marbon Chemical Corporation	690	ABS resin	0.040	101A	100	6.2	9.6	–	U	U
Cycolac H-4001 Black	Marbon Chemical Corporation	687	ABS resin	0.050	101A	100	6.2	7.8	–	U	U
Cycolac H-4001 Black	Marbon Chemical Corporation	684	ABS resin	0.060	101A	100	6.2	7.2	–	U	U
Cycolac H-4001 Black	Marbon Chemical Corporation	681	ABS resin	0.080	101A	100	6.2	5.9	–	U	U
Cycolac LT-1000	Marbon Chemical Corporation	653	ABS resin	0.010	101A	100	6.2	21.6	–	U	U
Cycolac LT-1000	Marbon Chemical Corporation	651	ABS resin	0.020	101A	100	6.2	17.4	–	U	U
Cycolac LT-1000	Marbon Chemical Corporation	647	ABS resin	0.030	101A	100	6.2	13.8	–	U	U
Cycolac LT-1000	Marbon Chemical Corporation	645	ABS resin	0.040	101A	100	6.2	12.0	–	U	U

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Material Description, Assemblage, Etc.	Manufacturer or Source	Test No.	Composition and/or Remarks	Thickness (Inch)	Ignitor	GOX		Flame Propagation Rate Inches/Minute		Materials Rating	
						%	psia	Top Ignition	Bottom Ignition	Type I	Group I
Cycolac LT-1000	Marbon Chemical Corporation	641	ABS resin	0.050	101A	100	6.2	9.0	–	U	U
Cycolac LT-1000	Marbon Chemical Corporation	638	ABS resin	0.060	101A	100	6.2	10.2	–	U	U
Cycolac LT-1000	Marbon Chemical Corporation	636	ABS resin	0.077	101A	100	6.2	7.8	–	U	U
Crystal M Paper	Minnesota Mining & Manufacturing Company	414		0.004	101A	100	6.2	NI	NI	BT	BT
Crystal MG Paper	Minnesota Mining & Manufacturing Company	424		0.003	101A	100	6.2	NI	NI	BT	BT
Crystal MP Paper	Minnesota Mining & Manufacturing Company	427		0.005	101A	100	6.2	NI	NI	BT	BT
D-021 Composite	Goodyear Corporation	487	Aluminum foil, polyurethane foam, and rubber composite	1.07	101A	100	6.2	3.7	BC - 55.8	U	U
DC 325 Compound	Dow Corning Corporation	233		0.085	101A	100	6.2	9.0	–	U	U
DC 93-027	Dow Corning Corporation	234		0.070	101A	100	6.2	7.2	–	U	U
DC 93-046	Dow Corning Corporation	235		0.090	101A	100	6.2	4.9	–	U	U
DF 1700 WB	Dielectric Corporation	141	Teflon	0.003	101A	100	6.2		BC - 20	U	U
3-D Insulation	Non-Metallic Materials Branch, MSFC	–	Narmco 7343 seal coat and 116 Volan glass fabric	0.50	101A	100	6.2	27.0	–	U	U
Diisocyanate Foam	Ames Research Center	1901	Isocyanate	1.00	101B	100	6.2		BC - 819	U	U
Dodge Fiber E650	Dodge Industries, Inc.	1749	Teflon Glass Laminate	0.062	101B	100	10.0		SE - 2	BT	S

TABLE I. FLAMMABILITY OF PLASTICS, ELASTOMERS, COATINGS, FABRICS, AND OTHER SHEET MATERIALS (Continued)

Material Description, Assemblage, Etc.	Manufacturer or Source	Test No.	Composition and/or Remarks	Thickness (Inch)	Ignitor	GOX		Flame Propagation Rate Inches/Minute		Materials Rating	
						%	psia	Top Ignition	Bottom Ignition	Type I	Group I
Dodge Fiber E650	Dodge Industries, Inc.	1675	Teflon Glass Laminate	0.062	101B	100	6.2		SE - 1	BT	S
Dodge Fiber E650	Dodge Industries, Inc.	1675	Teflon Glass Laminate	0.062	101B	100	6.2		SE - 0.4	BT	S
Dodge Fiber E650-1124	Dodge Industries, Inc.	1566	Teflon Glass Laminate	0.060	101A	100	6.2	NI	NI	BT	S
Dodge Fiber E650-1124	Dodge Industries, Inc.	1249	Teflon Glass Laminate	0.063	101A	100	6.2		NI	BT	S
Donahue Latex Base Paint on 1 Mil Foil	Donahue Point Company	1622	Latex Emulsion	0.007	101A	100	6.2		BC - 20	U	U
Dow Corning Adhesive Sealant RTV 3145 (filler on 0.125" thick aluminum)	Dow Corning Corporation	100	Silicone	Configuration Test	101A	70	6.2		SE - 0.54	BT	–
DuPont 215-141 Fabric	E. I. du Pont de Nemours & Company	1048	Teflon sized beta cloth Armalon 95-049	0.007	101A	100	6.2		NI	BT	BT
Duroid 910	Rogers Corporation	505	Homogeneous blend of Buna-N and cellulose fibers	0.031	101A	100	6.2	3.8	BC - 22.2	U	U
Duroid 3102	Rogers Corporation	481	Neoprene, latex, and asbestos fibers composite	0.031	101A	100	6.2	4.3	BC - 13.8	U	U
Duroid 3110	Rogers Corporation	499	Neoprene, latex, and asbestos fibers composite	0.031	101A	100	6.2	5.9	BC - 13.2	U	U
Duroid 5600	Rogers Corporation	1693	Filled Teflon	0.015	101B	100	6.2		SE - 4.8	U	BT
Duroid 5600	Rogers Corporation	1693	Filled Teflon	0.015	101B	100	6.2		SE - 3.5	U	BT
Duroid 3200	Rogers Corporation	510	Buna-N, latex, and asbestos fibers composite	0.031	101A	100	6.2	7.2	BC - 25.2	U	U

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TABLE I. FLAMMABILITY OF PLASTICS, ELASTOMERS, COATINGS, FABRICS, AND OTHER SHEET MATERIALS (Continued)

Material Description, Assemblage, Etc.	Manufacturer or Source	Test No.	Composition and/or Remarks	Thickness (Inch)	Ignitor	GOX		Flame Propagation Rate Inches/Minute		Materials Rating	
						%	psia	Top Ignition	Bottom Ignition	Type I	Group I
Duroid 5600	Rogers Corporation	969	60% Teflon, 40% ceramic composite	0.016	101A	100	6.2	–	NI	BT	BT
Duroid 5650	Rogers Corporation	971	75% Teflon, 25% ceramic composite	0.016	101A	100	6.2	–	NI	BT	BT
Duroid 5870	Rogers Corporation	973	85% Teflon, 15% glass fibers composite	0.016	101A	100	6.2	–	NI	BT	BT
Dynatherm D-65	Dynatherm Chemical Corporation	–	Inorganic filled polyurethane	0.19	101A	100	6.2	BC - 11.4	–	U	U
Dynaflex	Lord Manufacturing Company	2048	Elastomeric Coupling		101A	100	6.2		BC	U	U
EC 2850 GT	Emerson & Cuming Chemical Co.	1149	Filled Epoxy	0.105	101A	100	6.2		BC - 9.6	U	U
EC 2850 GT	Emerson & Cuming Chemical Co.	1149	Filled Epoxy	0.150	101A	100	6.2		BC - 1.2	U	U
Emralon 310, 2 Mil on 1 Mil Foil	Acheson Colloids Company	1201	Organic Bonded Teflon	0.002	101A	100	6.2		BC - 180	U	U
Emralon 310, 1 Mil on 1 Mil Foil	Acheson Colloids Company	1199	Organic Bonded Teflon	0.002	101A	100	6.2		BC - 138	U	U
Emralon 312, 3 Mil on 1 Mil Aluminum	Acheson Colloids Company	1552	Organic Bonded Teflon	0.003	101A	100	6.2		BC - 360	U	U
Emralon 320, 2 Mil on 1 Mil Aluminum	Acheson Colloids Company	1553	Organic Bonded Teflon	0.002	101A	100	6.2		BC - 210	U	U
EMR-1529R Foam	Electrochemical Research, Inc.	1740	Polyurethane Potting Foam	0.500	Bunsen Burner	Air	14.7		BC	U	U
EMR-1539A Foam	Electrochemical Research, Inc.	1741	Polyurethane Potting Foam	0.500	Bunsen Burner	Air	14.7		BC	U	U

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TABLE I. FLAMMABILITY OF PLASTICS, ELASTOMERS, COATINGS, FABRICS, AND OTHER SHEET MATERIALS (Continued)

Material Description, Assemblage, Etc.	Manufacturer or Source	Test No.	Composition and/or Remarks	Thickness (Inch)	Ignitor	GOX		Flame Propagation Rate Inches/Minute		Materials Rating	
						%	psia	Top Ignition	Bottom Ignition	Type I	Group I
Energy Absorbing Foam 2001-13	Morton Research Company	1587		0.625	101A	100	6.2		BC	U	U
Energy Absorbing Foam 3002-7	Morton Research Company	1588		0.625	101A	100	6.2		BC	U	U
Etched TFE Adhesive Tape Bonded to 1/4" Sheet Moslte Sponge	Marshall Space Flight Center	2056	Teflon	0.648	101A	100	6.2	NI	BC	U	U
Everlube 812 on 1 Mil Aluminum Foil	Everlube Corporation	1216		0.003	101A	100	6.2		NI	S	S
Expanded Polyvinyl Chloride	Plyfoam Corporation	1241A	Polyvinyl Chloride	0.375	101A	100	6.2		BC	U	U
Epoxy Fiberglass Composite	McDonnell-Douglas Corporation	532	MDC SPEC A3-850-KODO-L-3070	0.045	101A	100	6.2	17.4	BC - 20.4	U	U
Estane	B. F. Goodrich Company	837	Urethane	0.005	101A	100	6.2	65.4	–	U	U
Estane	B. F. Goodrich Company	835	Urethane	0.010	101A	100	6.2	62.4	–	U	U
Estane	B. F. Goodrich Company	833	Urethane	0.020	101A	100	6.2	42.0	–	U	U
Estane	B. F. Goodrich Company	831	Urethane	0.030	101A	100	6.2	27.6	–	U	U
Estane	B. F. Goodrich Company	829	Urethane	0.040	101A	100	6.2	31.8	–	U	U
Estane	B. F. Goodrich Company	827	Estane	0.050	101A	100	6.2	42.6	–	U	U
Estane	B. F. Goodrich Company	807	Urethane	0.060	101A	100	6.2	42.6	–	U	U
Estane	B. F. Goodrich Company	805	Urethane	0.080	101A	100	6.2	3.8	–	U	U

TABLE I. FLAMMABILITY OF PLASTICS, ELASTOMERS, COATINGS, FABRICS, AND OTHER SHEET MATERIALS (Continued)

Material Description, Assemblage, Etc.	Manufacturer or Source	Test No.	Composition and/or Remarks	Thickness (Inch)	Ignitor	GOX		Flame Propagation Rate Inches/Minute		Materials Rating	
						%	psia	Top Ignition	Bottom Ignition	Type I	Group I
Estane	B. F. Goodrich Company	803	Urethane	0.135	101A	100	6.2	21.6	–	U	U
Estane	B. F. Goodrich Company	791	Urethane	0.250	101A	100	6.2	42.6	–	U	U
Ethylene Propylene Compound RA-366-60EP	Non-Metallic Materials Branch, MSFC	357		0.077	101A	100	6.2	5.0	BC - 15.0	U	U
Ethylene Propylene Compound RA-367-70EP (30-160)	Non-Metallic Materials Branch, MSFC	399		0.077	101A	100	6.2	3.4	–	U	U
Ethyl Cellulose	Non-Metallic Materials Branch, MSFC	856		0.010	101A	100	6.2	60.0	–	U	U
Ethyl Cellulose	Non-Metallic Materials Branch, MSFC	854		0.020	101A	100	6.2	33.6	–	U	U
Ethyl Cellulose	Non-Metallic Materials Branch, MSFC	852		0.030	101A	100	6.2	25.2	–	U	U
Ethyl Cellulose	Non-Metallic Materials Branch, MSFC	850		0.040	101A	100	6.2	21.0	–	U	U
Ethyl Cellulose	Non-Metallic Materials Branch, MSFC	847		0.050	101A	100	6.2	20.4	–	U	U
Ethyl Cellulose	Non-Metallic Materials Branch, MSFC	845		0.065	101A	100	6.2	19.8	–	U	U
Ethyl Cellulose	Non-Metallic Materials Branch, MSFC	843		0.080	101A	100	6.2	15.6	–	U	U
Ethyl Cellulose	Non-Metallic Materials Branch, MSFC	841		0.125	101A	100	6.2	15.0	–	U	U
Ethyl Cellulose	Non-Metallic Materials Branch, MSFC	839		0.250	101A	100	6.2	8.4	–	U	U

TABLE I. FLAMMABILITY OF PLASTICS, ELASTOMERS, COATINGS, FABRICS, AND OTHER SHEET MATERIALS (Continued)

Material Description, Assemblage, Etc.	Manufacturer or Source	Test No.	Composition and/or Remarks	Thickness (Inch)	Ignitor	GOX		Flame Propagation Rate Inches/Minute		Materials Rating	
						%	psia	Top Ignition	Bottom Ignition	Type I	Group I
F88 Adhesive on 0.022" Aluminum Foil	Tridox Products Company	1613	Dental Adhesive	0.004	101A	100	6.2		BC	U	U
FEP Coated Monsanto X400	Dodge Industries, Inc.	1639	Teflon	0.008	101A	70	6.2		BC	U	U
FEP Coated Glass	Marshall Space Flight Center	1890	Teflon w/Glass	0.205	101A	70	6.2		NI	S	S
Fiberglass Cylinder Assy Docking Part, MDA-30M-14280	Marshall Space Flight Center	1756			Bunsen Burner	Air	14.7		SE	S	S
Fiberglass Epoxy Laminate	Non-Metallic Materials Branch, MSFC	492		0.150				2.1	BC - 4.3	U	U
Fiberglass Epoxy Assy Dwg. 20M14280	Marshall Space Flight Center	1670	Epoxy w/Fiberglass	0.500	101A	100	6.2	0.13	BC	U	U
Fiberglass Reinforced Silicone Laminate	McDonnell Douglas Corporation	80	Silicone w/Fiberglass	–	101B	100	6.2		BC	U	U
Fiber Nut Lock, 3/8" 24		1603		0.375	101A	100	6.2		BC	U	U
Flexipal US-77	Flexible Products Company	1739	Per ASTM D1692	0.75	Bunsen Burner	Air	14.7		SE	S	S
Fluorel Cushion Clamp P/N 967	R. E. Darling Company	1801	Fluoroelastomer	0.178	101A	100	6.2		NI	BT	BT
Fluorel Cushion Clamp	R. E. Darling Company	1801	Fluoroelastomer	0.187	101B	100	6.2		SE	BT	BT
Fluorel Elastomer L-2231	Minnesota Mining & Manufacturing Company	993	Cure date 11-2-67	0.065	101A	100	6.2	–	NI	BT	BT
Fluorel Elastomer	Minnesota Mining & Manufacturing Company	237	Standard Fluorel Elastomer	0.080	101A	100	6.2	0.30	–	U	U

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Material Description, Assemblage, Etc.	Manufacturer or Source	Test No.	Composition and/or Remarks	Thickness (Inch)	Ignitor	GOX		Flame Propagation Rate Inches/Minute		Materials Rating	
						%	psia	Top Ignition	Bottom Ignition	Type I	Group I
Fluoroelastomer	Colonial Rubber Company	997		0.040	101A	100	6.2	1.8	BC - 11.4	U	U
Fluorosilicon Compound RA-277-60LS	Non-Metallic Materials Branch, MSFC	359		0.076	101A	100	6.2	3.8	BC - 4.6	U	U
Fluorglas M-385-10	Dodge Fibers Corporation	823	Teflon coated glass fabric	0.010	101A	100	6.2	–	NI	BT	BT
Fluorglass M-385-10	Dodge Fibers Corporation	968	Teflon coated glass fabric	0.010	101A	100	6.2	–	NI	BT	BT
Fluorglas 387-3	Dodge Fibers Corporation	948	Teflon TFE coated glass fabric	0.003	101A	100	6.2	NI	BC - 0.44	U	U
Fluorglas 387-5	Dodge Fibers Corporation	968	Teflon TFE coated glass fabric	0.005	101A	100	6.2	–	NI	BT	BT
Fluorglas 387-6	Dodge Fibers Corporation	957	Teflon TFE coated glass fabric	0.006	101A	100	6.2	NI	NI	BT	BT
Fluorglas 387-10	Dodge Fibers Corporation	956	Teflon TFE coated glass fabric	0.010	101A	100	6.2	–	NI	BT	BT
Fluorglas 391-4	Dodge Fibers Corporation	945	Teflon FEP coated glass fabric	0.004	101A	100	6.2	–	NI	BT	BT
Fluorglas 391-5	Dodge Fibers Corporation	942	Teflon FEP coated glass fabric	0.005	101A	100	6.2	–	NI	BT	BT
Fluorglas 391-10	Dodge Fibers Corporation	939	Teflon FEP coated glass fabric	0.010	101A	100	6.2	–	NI	BT	BT
Fluorinated Polyurethane	Narmco Research & Development Company	1626	Fluorinated Polyurethane	0.016	101A	100	6.2		NI	BT	BT
Fluorinated Polyurethane NASA-11068-FL-2	Narmco Research & Development Company	1625	Fluorinated Polyurethane	0.016	101A	100	6.2		NI	BT	BT

TABLE I. FLAMMABILITY OF PLASTICS, ELASTOMERS, COATINGS, FABRICS, AND OTHER SHEET MATERIALS (Continued)

Material Description, Assemblage, Etc.	Manufacturer or Source	Test No.	Composition and/or Remarks	Thickness (Inch)	Ignitor	GOX		Flame Propagation Rate Inches/Minute		Materials Rating	
						%	psia	Top Ignition	Bottom Ignition	Type I	Group I
Foam, Grade 10-900	Scott Paper Company	1764	Polyurethane	0.125	101A	100	6.2	BC		U	U
FR-45 Copper Clad on Both Sides	Formica Corporation	1830		0.070	101A	100	6.2		SE	U	BT
Freon E1	E. I. du Pont de Nemours Co., & Inc.	125	Fluorinated Ether	—	101B	100	6.0		NI	S	S
Freon E2	E. I. du Pont de Nemours Co., & Inc.	116	Fluorinated Ether	100 ml.	101A	100	6.2		NI	S	S
General Sealant No. 43	General Sealant Company	2061		0.02		100	6.2		BC	U	U
General Sealant No. 210	General Sealant Company	2060		0.02		100	6.2		BC	U	U
Glass Cloth w/Mosite 1079K	General Sealant Company	1888	Fluoroelastomer w/Glass Cloth	0.008	101A	70	6.2		SE - 1.2	U	BT
Glass Fabric	Clark-Schewebel Fiberglass Corporation	998		0.003	101A	100	6.2	SE	SE	BT	BT
Glass Resin No. 100 Clear	Owens Corning Corporation	353	64% silica dioxide, 36% butyl phenyl	0.075	101A	100	6.2	1.5	BC - 2.5	U	U
Glass Resin No. 100 Clear	Owens Corning Corporation	456	64% silica dioxide, 36% butyl phenyl	0.332	101A	100	6.2	0.54	BC - 1.7	U	U
Glass Resin 100 Fiberglass Laminate	Owens Corning Corporation	466	14 plies of 181-112 NPII glass cloth impregnated with 30% No. 100 resin	0.105	101A	100	6.2	NI	NI	BT	BT
Glass Resin 908, Fiberglass Laminate	Martin-Marietta Corporation	1844	Fiberglass Resin Laminate	0.045	101A	100	6.2		BC	U	U
Glass Sewing Thread, Coated w/PTFE	Dodge Industries	1222	Teflon Coated Thread	0.009	101A	100	6.2		NI	S	S

TABLE I. FLAMMABILITY OF PLASTICS, ELASTOMERS, COATINGS, FABRICS, AND OTHER SHEET MATERIALS (Continued)

Material Description, Assemblage, Etc.	Manufacturer or Source	Test No.	Composition and/or Remarks	Thickness (Inch)	Ignitor	GOX		Flame Propagation Rate Inches/Minute		Materials Rating	
						%	psia	Top Ignition	Bottom Ignition	Type I	Group I
Fluorogreen E-600	John L. Dore' Company	1614	Filled Teflon	0.125	101B	100	6.2		NI	BT	BT
Fluorogreen E-600	John L. Dore' Company	455	Filled Teflon	0.125	101A	100	6.2		NI	BT	BT
Fluorogreen E-600	John L. Dore' Company	1672	Filled Teflon	0.070	101B	100	6.2		SE - 0.11	BT	S
Fluorogreen E-600	John L. Dore' Company	359	Filled Teflon	0.016	101A	100	6.2	–	NI	BT	BT
Fluorogreen E-600	John L. Dore' Company	1672	Filled Teflon	0.070	101B	100	6.2		SE - 0.50	BT	S
Fluorogreen E-600	John L. Dore' Company	450	Filled Teflon	0.060	101A	100	6.2		NI	BT	BT
Fluorogreen E-600	John L. Dore' Company	1555	Filled Teflon	0.010	101A	100	6.2		NI	BT	U
Fluorogreen E-600	John L. Dore' Company	1583	Filled Teflon	0.010	101B	100	6.2		BC	BT	U
Fluorogold	Fluorocarbon, Inc.	1842	Filled Teflon	0.125	101A	70	6.2		NI	BT	S
Fluorosilicone Rubber	Dow Corning Corporation	2043	Fluorinated Silicone Elastomer	0.125	101A	50	6.2		BC	U	U
Fluorosilicone Rubber	Dow Corning Corporation	2047	Fluorinated Silicone Elastomer	0.125	101A	70	8.5		BC	U	U
Foam, Blue	National Gypsum Company	1664	Polyurethane	1.0	Bunsen Burner	Air	14.7		SE	S	S
Foam, Grey	National Gypsum Company	1665	Polyurethane	1.0	Bunsen Burner	Air	14.7		SE	S	S
Foam, Yellow	National Gypsum Company	1666	Polyurethane	1.0	Bunsen Burner	Air	14.7		SE	S	S
Foam, Insulation	Nopco, Inc.	1667	Polyurethane	0.375	Bunsen Burner	Air	14.7		SE	S	S

TABLE I. FLAMMABILITY OF PLASTICS, ELASTOMERS, COATINGS, FABRICS, AND OTHER SHEET MATERIALS (Continued)

Material Description, Assemblage, Etc.	Manufacturer or Source	Test No.	Composition and/or Remarks	Thickness (Inch)	Ignitor	GOX		Flame Propagation Rate Inches/Minute		Materials Rating	
						%	psia	Top Ignition	Bottom Ignition	Type I	Group I
Green ADEL Clamp, P/N 492			Teflon Impregnated Asbestos	0.75" Dia.	101B	100	6.2		NI	S	S
Green Carpet	Ozite, Inc.	1841		0.250	101A	70	6.2		BC	U	U
Grex Polyolefin	W. R. Grace Company	678		0.006	101A	100	6.2	28.2	–	U	U
Grex Polyolefin	W. R. Grace Company	674		0.010	101A	100	6.2	30.6	–	U	U
Grex Polyolefin	W. R. Grace Company	672		0.020	101A	100	6.2	22.2	–	U	U
Grex Polyolefin	W. R. Grace Company	668		0.030	101A	100	6.2	16.2	–	U	U
Grex Polyolefin	W. R. Grace Company	666		0.040	101A	100	6.2	18.0	–	U	U
Grex Polyolefin	W. R. Grace Company	662		0.050	101A	100	6.2	13.2	–	U	U
Grex Polyolefin	W. R. Grace Company	660		0.060	101A	100	6.2	16.2	–	U	U
Grex Polyolefin	W. R. Grace Company	656		0.080	101A	100	6.2	10.8	–	U	U
Halon G-700	Allied Chemical Company	1761	TFE Teflon	0.130	101A	100	6.2		BC	U	BT
Halon G-700	Allied Chemical Company	1767	TFE Teflon	0.265	101A	100	6.2		SE - 1	BT	S
Halon G-700	Allied Chemical Company	1768	TFE Teflon	0.375	101A	100	6.2		NI	S	S
H-Cement on 1 Mil Aluminum Foil	L. D. Caulk Company	1631		0.005	101A	100	6.2		NI	S	S
H-Cement on 1 Mil Aluminum Foil	L. D. Caulk Company	1631		0.005	101A	100	12.0		NI	S	S
Herculite Glass	PPG Industries	1770		0.25	101B	100	6.2		NI	S	S

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TABLE I. FLAMMABILITY OF PLASTICS, ELASTOMERS, COATINGS, FABRICS, AND OTHER SHEET MATERIALS (Continued)

Material Description, Assemblage, Etc.	Manufacturer or Source	Test No.	Composition and/or Remarks	Thickness (Inch)	Ignitor	GOX		Flame Propagation Rate Inches/Minute		Materials Rating	
						%	psia	Top Ignition	Bottom Ignition	Type I	Group I
Hi D-5-37 Teflon Coated Glass Fabric	Taconics Plastics Corporation	722	5-mil TFE coated 116 glass cloth	0.004	101A	100	6.2	—	SE (2-1/2")	U	BT
Hi D-5-37 Teflon Coated Glass Fabric	Taconics Plastics Corporation	768	5-mil TFE coated 116 glass cloth	0.004	101A	100	6.2	—	SE (3-1/2")	U	BT
Hi D-5-40B Teflon Coated Glass Fabric	Taconics Plastics Corporation	756	5-mil Teflon coated 116 beta cloth	0.004	101A	100	6.2	—	BC - 16.2	U	U
Hi D-5-50 Teflon Coated Glass Fabric	Taconics Plastics Corporation	432	5-mil Teflon coated 116 glass cloth	0.006	101A	100	6.2	SE	BC - 15.6	U	U
Hi D-5-50 Teflon Coated Glass Fabric	Taconics Plastics Corporation	761	5-mil Teflon coated 116 glass cloth	0.006	101A	100	6.2	—	BC - 11.4	U	U
Hi D-5-50 Teflon Coated Glass Fabric	Taconics Plastics Corporation	717	5-mil Teflon coated 116 glass cloth	0.006	101A	100	6.2	SE	BC - 12.6	U	U
Hi D-10-77 Teflon Coated Glass Fabric	Taconics Plastics Corporation	721	10-mil Teflon coated on 7-mil 128 glass cloth	0.008	101A	100	6.2	NI	SE (2")	BT	BT
Hi D-10-98 Teflon Coated Glass Fabric	Taconics Plastics Corporation	767	Teflon coated 128 glass cloth	0.010	101A	100	6.2	—	BC - 5.4	U	U
Herculite, 18 oz. Material	Hercules Powder Company	922	Vinyl nylon laminate per MIL-C-43006B	0.024	101A	100	6.2	21.0	—	U	U
Herculite, 6 oz. Material	Hercules Powder Company	929	Vinyl nylon laminate per MIL-C-43006B	0.010	101A	100	6.2	47.4	—	U	U
Huntsville Phone Directory	Southern Bell Telephone and Telegraph Company	546	Paper dated August 28, 1960	0.75	101A	100	6.2	6.0	BC - 33.6	U	U
Hypalon 20	Non-Metallic Materials Branch, MSFC	284	Compound RA-300-70H (30-163)	0.075	101A	100	6.2	2.1	—	U	U
Hypol 12-007-A	Hysol Chemical Company	1088		0.120	101A	100	6.2	49.2	BC - 13.8	U	U

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TABLE I. FLAMMABILITY OF PLASTICS, ELASTOMERS, COATINGS, FABRICS, AND OTHER SHEET MATERIALS (Continued)

Material Description, Assemblage, Etc.	Manufacturer or Source	Test No.	Composition and/or Remarks	Thickness (Inch)	Ignitor	GOX		Flame Propagation Rate Inches/Minute		Materials Rating	
						%	psia	Top Ignition	Bottom Ignition	Type I	Group I
HT2-35 Shock Mount	Lord Manufacturing Company	1951		–	101A	70	6.2		NI	S	S
HT2-35 Shock Mount	Lord Manufacturing Company	1951		–	101B	70	6.2		NI	S	S
Interlon 7240	Interelectronics	1843	High Temperature	0.312	101A	70	6.2		BC	U	U
Irish Refrasil	H. I. Thompson Company	391		0.175	101A	100	6.2		NI	BT	BT
Johns Manville Asbestos	Johns Manville Corporation	1556		0.122	101A	100	6.2		NI	S	S
Kapton X-996	E. I. du Pont de Nemours & Company	1035	Polyimide	0.005	101A	100	6.2	16.2	BC - 35.4	U	U
Kel-F	Minnesota Mining & Manufacturing Company	1705	Trifluorochloroethylene	0.400	101A	70	6.2		NI	S	S
Kel-F Elastomer 3700	Minnesota Mining & Manufacturing Company	236	Chlorofluorocarbon	0.080	101A	100	6.2	SE	–	BT	BT
Kel-F Plastic	Minnesota Mining & Manufacturing Company	470		0.080	101A	100	6.2	SE	SE	BT	BT
Kel-F	Minnesota Mining & Manufacturing Company	1652	Trifluorochloroethylene	0.400	101A	100	6.2		NI	S	S
Kel-F	Minnesota Mining & Manufacturing Company	1651	Trifluorochloroethylene	0.265	101A	100	6.2		SE	U	BT
Kel-F	Minnesota Mining & Manufacturing Company	1703	Trifluorochloroethylene	0.250	101A	70	6.2		NI	BT	S
Kel-F	Minnesota Mining & Manufacturing Company	1708	Trifluorochloroethylene	0.085	101A	70	6.2		SE	U	S
Kynar	Raychem Corporation	2026	Vinyledene Fluoride Resin	0.63	101A	100	6.2		BC	U	U

TABLE I. FLAMMABILITY OF PLASTICS, ELASTOMERS, COATINGS, FABRICS, AND OTHER SHEET MATERIALS (Continued)

Material Description, Assemblage, Etc.	Manufacturer or Source	Test No.	Composition and/or Remarks	Thickness (Inch)	Ignitor	GOX		Flame Propagation Rate Inches/Minute		Materials Rating	
						%	psia	Top Ignition	Bottom Ignition	Type I	Group I
Kynar, Cable Clamp	Raychem Corporation	1769	Vinyledene Fluoride Resin	0.063	101A	100	6.2		BC	U	U
Krylon Regal Blue 1901	Krylon, Incorporated	867	Sprayed on 1-mil aluminum foil	0.001	101A	100	6.2	–	BC - 960.0	U	U
L-6-2-3 Porcelain Enamel on 3 Mil Foil	Marshall Space Flight Center	1643	Porcelain	0.17	101A	100	6.2		NI	S	S
LA-141 Mg-Li Alloy	Marshall Space Flight Center	1582	Mg-Li Alloy	0.018	101B	100	6.2		BC	U	U
Lacing Tape E-779-303, Teflon Coated	Dodge Industries	1868	Teflon-Fiberglass	0.063	101A	100	6.2		SE	BT	BT
Laminar X-500, Primer MIL-C-85-14, 1 Mil on 0.016" Aluminum Foil	Dexter Chemical Company	1920	Polyurethane Film on Aluminum Foil	0.001	101B	70	6.2		NI	S	S
Laminar X-500, 1 Mil on 3 Mil Foil	Dexter Chemical Company	1921	Polyurethene Film on Aluminum Foil	0.001	101B	70	6.2		BC	BT	U
Laminar X-500, 1 Mil on 3 Mil Foil	Dexter Chemical Company	1922	Polyurethane Film on Aluminum Foil	0.001	101B	70	6.2		BC - 36	BT	U
Laminar X-500, 1 Mil on 3 Mil Foil	Dexter Chemical Company	1928	Polyurethane Film on Aluminum Foil	0.001	101A	70	6.2		NI	BT	BT
Laminar X-500, 1 Mil on 3 Mil Foil	Dexter Chemical Company	1928	Polyurethane Film on Aluminum Foil	0.001	101A	70	6.2		NI	BT	BT
Laminar X-500 over Fluorel	McDonnell Douglas Corporation Eastern Division	2039	Fluoroelastomer	0.020	101A	70	6.2		SE	BT	BT
Laminated Aluminum - Cardboard	McDonnell Douglas Corporation Western Division	2030	Cardboard - Aluminum Laminated	4.4	101A	100	6.2		SE	BT	BT
Lexan	General Electric Company	112	Polycarbonate	0.125	101B	30	10.0		SE	BT	BT

TABLE I. FLAMMABILITY OF PLASTICS, ELASTOMERS, COATINGS, FABRICS, AND OTHER SHEET MATERIALS (Continued)

Material Description, Assemblage, Etc.	Manufacturer or Source	Test No.	Composition and/or Remarks	Thickness (Inch)	Ignitor	GOX		Flame Propagation Rate Inches/Minute		Materials Rating	
						%	psia	Top Ignition	Bottom Ignition	Type I	Group I
Lexan	General Electric Company	1559	Polycarbonate	0.125	101A	100	6.2		BC	U	U
Lexan	General Electric Company	1845	Polycarbonate	0.183	101A	100	6.2		BC	U	U
Lexan	General Electric Company	1846	Polycarbonate	0.183	101A	70	6.2		BC	U	U
Lexan	McDonnell Douglas Company	2017	Polycarbonate	0.020	101A	70	6.2	BC	BC	U	U
Lexan 103, GE 250	General Electric Company	1560	Polycarbonate	0.250	101A	100	6.2	BC		U	U
Lexan, 0.042" Thick 9400 Aclar Painted Nextel Grey on 0.032" Aluminum	Minnesota Mining & Manufacturing Company	6	Polycarbonate w/Nextel over Aluminum	0.40	101A	30	6.2		BC	U	U
Lexan Tube, 1/8" Wall, 1 1/16" OD	Sylvania Corporation	1826	Polycarbonate	0.020	101A	100	6.2		BC	U	U
Lexan Tube Covered w/0.026" FEP	Sylvania Corporation	1827	Polycarbonate w/Teflon	0.026	101A	100	6.2		BC	U	U
Lexan w/5Al-2.5Sn Titanium Alloy	Sylvania Corporation	99	Polycarbonate on Titanium Alloy	0.250	101B	100	6.2		BCC	U	U
Lexan w/Micatex Coat	Marshall Space Flight Center	1823	Polycarbonate w/Paint Coat	0.250	101A	100	6.2		BC	U	U
Lexan Coated w/H-Cement	General Electric Company	1824	Polycarbonate w/Cement	0.136	101A	100	6.2		BC	U	U
Leno Weave	Connecticut Hard Rubber Company	474	Teflon coated glass	0.010	101A	100	6.2	SE	BC - 7.8	U	U
Lexan	General Electric Company	1074	Polycarbonate resin	0.020	101A	100	6.2	12.6	–	U	U
Lexan	General Electric Company	557	Polycarbonate resin	0.035	101A	100	6.2	10.8	BC - 32.4	U	U

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TABLE I. FLAMMABILITY OF PLASTICS, ELASTOMERS, COATINGS, FABRICS, AND OTHER SHEET MATERIALS (Continued)

Material Description, Assemblage, Etc.	Manufacturer or Source	Test No.	Composition and/or Remarks	Thickness (Inch)	Ignitor	GOX		Flame Propagation Rate Inches/Minute		Materials Rating	
						%	psia	Top Ignition	Bottom Ignition	Type I	Group I
Lexan	General Electric Company	1066	Polycarbonate resin	0.060	101A	100	6.2	7.2	–	U	U
Lexan	General Electric Company	1064	Polycarbonate resin	0.125	101A	100	6.2	4.7	–	U	U
Lexan	General Electric Company	1060	Polycarbonate resin	0.250	101A	100	6.2	2.2	1.8	U	U
Lead Porcelain Enamel on 1 Mil Foil		1661	Porcelain Coating	0.004	101A	100	6.2		NI	S	S
Lithium-Magnesium Alloy LA-141	Marshall Space Flight Center	1577	Li-Mg Alloy	0.018	101A	100	6.2		NI	U	U
LS-53	Dow Corning Corporation	1539	Fluorosilicone	0.063	101A	100	6.2	BC-57		U	U
Magna Conductive Coating 1 Mil on 0.015" Aluminum	Magna Coating & Chemical Corp.	1910	Coated Polyurethane	0.016	101B	70	6.2		NI	BT	BT
Magna Conductive Coating 1 Mil on 3 Mil Foil	Magna Coating & Chemical Corp.	1909	Coated Polyurethane	0.004	101B	70	6.2		BC	U	U
MDA Window	Marshall Space Flight Center	116	Methacrylate	0.125	101B	30	10.0		BC	U	U
MDA Window Frame	Marshall Space Flight Center	1601	Fiberglass Epoxy	0.040	101A	100	6.2		BC	U	U
Micatex Beige, 75% HXW-25% Sears Parchment Beige	Marshall Space Flight Center	1646	Paint, MSFC Spec 10M01843	0.003	101A	100	6.2		SE	U	BT
Micatex, 75/25 Napco Biege on 1 Mil Foil	Napco Paint & Chemical Corp.	1737	Paint, MSFC Spec 10M01843	0.003	101A	100	6.2		BC	BT	BT
Micatex, 50/50 SW Tinting White on 3 Mil Foil	Marshall Space Flight Center	1831	Paint, MSFC Spec 10M01843	0.002	101A	100	6.2		NI	BT	BT
Micatex, 50/50 SW A-100 Exterior Latex	Marshall Space Flight Center	1832	Paint, MSFC Spec 10M01843	0.002	101A	100	6.2		BC	BT	BT

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TABLE I. FLAMMABILITY OF PLASTICS, ELASTOMERS, COATINGS, FABRICS, AND OTHER SHEET MATERIALS (Continued)

Material Description, Assemblage, Etc.	Manufacturer or Source	Test No.	Composition and/or Remarks	Thickness (Inch)	Ignitor	GOX		Flame Propagation Rate Inches/Minute		Materials Rating	
						%	psia	Top Ignition	Bottom Ignition	Type I	Group I
Micatex, 50/50 SW Latex Superior White A-100 Latex A6-W40 on 3 Mil Foil	Marshall Space Flight Center	1833	Paint, MSFC Spec 10M01843	0.002	101A	70	6.0		NI	BT	BT
Micatex, 50/50 White on 1 Mil Foil	Baltimore Paint & Chemical Co.	1736	Paint, MSFC Spec 10M01843	0.005	101A	100	6.2		BC	BT	BT
Micatex 50/50 MDAC on 1 Mil Foil	McDonnell Douglas Company	1777	Paint on Foil	0.003	101A	100	6.2		BC	BT	BT
Micatex-Wards, 50/50 on 1 Mil Foil	Marshall Space Flight Center	1780	MSFC Paint, Spec 10M01843	0.002	101A	100	6.2		BC	BT	BT
Micatex-Wards, 50/50 Yellow on 1 Mil Foil	Marshall Space Flight Center	1785	MSFC Paint Spec 10M01843	0.002	101A	100	6.2		BC	BT	BT
Micatex-Donahue, 50/50 on 1 Mil Foil	Marshall Space Flight Center	1793	MSFC Paint Spec 10M01843	0.003	101A	100	6.2		SE	BT	BT
Micatex, 25/75 Glidden Yellow on 1 Mil Foil	Marshall Space Flight Center	1746	Paint, MSFC Spec 10M01843	0.002	101A	100	6.2		SE	BT	BT
Micatex, 25/75 Gleem White on 1 Mil Foil	Marshall Space Flight Center	1747	Paint, MSFC Spec 10M01843	0.002	101A	100	6.2		SE	BT	BT
Micatex, 25/75 Mary Carter White on 1 Mil Foil	Marshall Space Flight Center	1750	Paint, MSFC Spec 10M01843	0.002	101A	100	6.2		SE	BT	BT
Micatex, 25/75 Pittsburg Yellow on 1 Mil Foil	Marshall Space Flight Center	1751	Paint, MSFC Spec 10M01843	0.003	101A	100	6.2		SE	BT	BT
Micatex-Donahue, 25/75 on 1 Mil Foil	Marshall Space Flight Center	1781	MSFC Paint Spec 10M01843	0.002	101A	100	6.2		NI	BT	BT
Micatex, 25/75 SW on 1 Mil Foil	Marshall Space Flight Center	1782	MSFC Paint Spec 10M01843	0.002	101A	100	6.2		BC	BT	BT

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TABLE I. FLAMMABILITY OF PLASTICS, ELASTOMERS, COATINGS, FABRICS, AND OTHER SHEET MATERIALS (Continued)

Material Description, Assemblage, Etc.	Manufacturer or Source	Test No.	Composition and/or Remarks	Thickness (Inch)	Ignitor	GOX		Flame Propagation Rate Inches/Minute		Materials Rating	
						%	psia	Top Ignition	Bottom Ignition	Type I	Group I
Micatex-Sears, 25/75 on 3 Mil Foil	Marshall Space Flight Center	1783	MSFC Paint Spec 10M01843	0.002	101A	100	6.2		NI	BT	BT
Micatex-Napco, 25/75 on 3 Mil Foil	Marshall Space Flight Center	1784	MSFC Paint Spec 10M01843	0.005	101A	100	6.2		BC	BT	BT
Micatex-Gleem, 25/75 on 1 Mil Foil	Marshall Space Flight Center	1779	MSFC Paint Spec 10M01843	0.002	101A	100	6.2		NI	BT	BT
Micatex, 15/85 SW 320-7-200 on 1 Mil Foil	McDonnell Douglas Company	1776	MSFC Paint Spec 10M01843	0.004	101A	100	6.2		BC	BT	BT
Micatex Beige on 1 Mil Foil	Marshall Space Flight Center	1686	Paint, MSFC Spec 10M01843	0.003	101B	100	6.2		BC	BT	BT
Micatex Blue on 3 Mil Copper	Marshall Space Flight Center	1687	Paint, MSFC Spec 10M01843	0.005	101B	100	6.2		SE	BT	BT
Micatex-SW Interior Latex Tinting White on 3 Mil Foil	Marshall Space Flight Center	1834	MSFC Paint Spec 10M01843	0.003	101A	70	6.2		NI	BT	BT
Micatex-SW Exterior A100 Coated w/Kel-F-800 on 3 Mil Foil	Marshall Space Flight Center	1837	MSFC Paint Spec 10M01843	0.002	101A	100	6.2		BC	BT	BT
Monsanto X-400 Fabric	Monsanto Corporation	1641	Nylon	0.011	101A	100	6.2		BC	U	U
Monsanto X-410 Fabric	Monsanto Corporation	1642	Nylon	0.011	101A	100	6.2		BC	U	U
Mosite 1069	Mosite Rubber Company	1681	Fluorinated Elastomer	0.080	101B	100	6.2		BC	BT	BT
Mosite 1069	Mosite Rubber Company	1681	Fluorinated Elastomer	0.080	101B	100	6.2		SE	BT	BT
Mosite 1069	Mosite Rubber Company	1057	Fluorinated Elastomer	0.080	101A	100	6.2		NI	BT	BT
Mosite 1062	Mosite Rubber Company	1225	Fluorinated Elastomer	0.440	101A	100	6.2		NI	BT	BT

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TABLE I. FLAMMABILITY OF PLASTICS, ELASTOMERS, COATINGS, FABRICS, AND OTHER SHEET MATERIALS (Continued)

Material Description, Assemblage, Etc.	Manufacturer or Source	Test No.	Composition and/or Remarks	Thickness (Inch)	Ignitor	GOX		Flame Propagation Rate Inches/Minute		Materials Rating	
						%	psia	Top Ignition	Bottom Ignition	Type I	Group I
Mosite 10649 Coated on Glass Fabric, Cured at 400° F for 4 Hours	Mosite Rubber Company	1669	Fluorinated Elastomer	0.020	101A	100	6.2		BC	U	BT
Mosite 1062	Mosite Rubber Company	1055	Fluorinated Elastomer	0.080	101A	100	6.2		SE	BT	BT
Mosite 1079K	Mosite Rubber Company	88	Fluorinated Elastomer	0.025	101A	70	6.2		SE	BT	BT
Mosite 1079K	Mosite Rubber Company	89	Fluorinated Elastomer	0.025	101B	70	6.2		SE	BT	BT
Mosite 1079K	Mosite Rubber Company	85	Fluorinated Elastomer	0.020	101B	70	6.2		SE	BT	BT
Mykroy 750 Ceramic	Mykroy Corporation	1580	Glass Bonded Mica	0.250	101A	100	6.2		NI	S	S
Mykroy 1100 Ceramic	Mykroy Corporation	1596	Glass Bonded Mica	0.265	101A	100	6.2		NI	S	S
Mylar	E. I. du Pont de Nemours Co., & Inc.	207	Polyester Film	0.0005	101A	100	1.0		SE	—	—
NAR-Downey NBO-125-019 Blue Polyester Nextel, 2 Mil Thick on 2 Mil Foil	North American Rockwell Corp.	1903	Polyester Paint	0.002	101B	70	6.2		BC	U	U
NAR-Downey NBO-125-019 Blue Polyester Nextel, 2 Mil on Aluminum	North American Rockwell Corp.	1904	Polyester Paint	0.002	101B	60	6.2		NI	BT	BT
NAR White Epoxy Polyimide NBO-125-008 on 0.015" Aluminum	Fuller Paint Company	1906	Epoxy Paint	0.002	101B	70	6.2		NI	BT	BT
Narmco 4373	Whittaker Corporation	1019		0.100	101A	100	6.2	26.4	—	U	U
Narmco 4373	Non-Metallic Materials Branch, MSFC	1022	Covered with 5-mil aluminum foil	0.115	101A	100	6.2	—	NI	BT	BT

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TABLE I. FLAMMABILITY OF PLASTICS, ELASTOMERS, COATINGS, FABRICS, AND OTHER SHEET MATERIALS (Continued)

Material Description, Assemblage, Etc.	Manufacturer or Source	Test No.	Composition and/or Remarks	Thickness (Inch)	Ignitor	GOX		Flame Propagation Rate Inches/Minute		Materials Rating	
						%	psia	Top Ignition	Bottom Ignition	Type I	Group I
Mosite 1077	Mosite Rubber Company	1745	Fluorinated Elastomer	0.075	101B	100	6.2		SE	BT	BT
Mosite 1077	Mosite Rubber Company	1748	Fluorinated Elastomer	0.075	101B	100	10.2		BC	BT	BT
Mosite 1079D Coated Beta Fabric	Mosite Rubber Company	57	Fluorinated Elastomer	0.010	101B	70	6.2		SE	BT	BT
Mosite 1079K	Mosite Rubber Company	86	Fluorinated Elastomer	0.125	101A	70	6.2		NI	BT	BT
Mosite 1079K	Mosite Rubber Company	87	Fluorinated Elastomer	0.125	101B	70	6.2		NI	BT	BT
Mosite 1079K, Lot 724-M-70/711	Mosite Rubber Company	1937	Fluoroelastomer	0.063	101A	70	6.2		NI	BT	BT
Mosite 1079K, Lot 725-M-70/711	Mosite Rubber Company	1937	Fluoroelastomer	0.063	101B	70	6.2		NI	BT	BT
Mosite 1079K, Lot 725-M-70/75F	Mosite Rubber Company	1938	Fluoroelastomer	0.063	101B	70	6.2		SE	BT	BT
Nomex Coated E54A	National Cash Register Co.	1948	High Temp. Nylon	0.003	101A	60	6.0		BC	U	U
Nomex Uncoated	National Cash Register Co.	1947	High Temp. Nylon	0.003	101A	70	6.0		BC	U	U
Nomex Paper E54A and 410	E. I. du Pont de Nemours Co.	2032	High Temp. Nylon	—	101A	100	6.2		BC	U	U
Nopco Foam		383	With LC2B Flame retardant	1.0	101A	100	6.2	96.0	—	U	U
Novabestos 7511T	Raybestos-Manhattan Corporation	1027		0.020	101A	100	6.2		NI	BT	BT
Novabestos 7511T	Raybestos-Manhattan Company	1684		0.017	101B	100	6.2		BC	U	U
Novabestos 7511T	Raybestos-Manhattan Company	1684		0.017	101B	100	6.2		BC	U	U

TABLE I. FLAMMABILITY OF PLASTICS, ELASTOMERS, COATINGS, FABRICS, AND OTHER SHEET MATERIALS (Continued)

Material Description, Assemblage, Etc.	Manufacturer or Source	Test No.	Composition and/or Remarks	Thickness (Inch)	Ignitor	GOX		Flame Propagation Rate Inches/Minute		Materials Rating	
						%	psia	Top Ignition	Bottom Ignition	Type I	Group I
Narmco 7343	Whittaker Corporation	—	Polyurethane	0.188	101A	100	6.2	15.6	—	U	U
Natural Rubber	Non-Metallic Materials Branch, MSFC	272	Compound RA-23-60M (20-143)	0.083	101A	100	6.2	4.1	—	U	U
Neoprene Rubber	Non-Metallic Materials Branch, MSFC	346	Compound RA-240-50ME	0.080	101A	100	6.2	—	BC - 13.2	U	U
Neoprene Modified Foam Covered w/Aluminized Saran on Both Sides		1902	Neoprene-Aluminized Saran Sandwich		101B	70	6.2		BC	U	U
Nickel Wool		1892	Nickel Metal	0.027	101A	70	6.2		NI	S	S
Nickel Wool		1893	Nickel Metal	0.027	101B	70	6.2		NI	S	S
Nomex 410 Plus Calcium Carbonate	National Cash Register Co.	1953	High Temp. Nylon	0.003	101A	70	6.2		BC	U	U
Nomex 410 Uncoated	National Cash Register Co.	1952	High Temp. Nylon	0.003	101A	70	6.2		BC	U	U
Mosite 1066 Coated on 1564 Glass Fabric	Mosite Rubber Company	1660	Fluorinated Elastomer	0.018	101A	100	6.2		BC	U	BT
Mosite 1071	Mosite Rubber Company	1609	Fluorinated Elastomer	0.314	101A	100	6.2		SE	BT	BT
Mosite 1072	Mosite Rubber Company	1608	Fluorinated Elastomer	0.500	101A	100	6.2		SE	BT	BT
Mosite 1076	Mosite Rubber Company	1710	Fluorinated Elastomer	0.077	101B	100	6.2		SE	BT	BT
Mosite 1076	Mosite Rubber Company	1710	Fluorinated Elastomer	0.077	101A	100	6.2		NI	BT	BT
Mosite 1077	Mosite Rubber Company	1733	Fluorinated Elastomer	0.075	101B	100	6.2		SE	BT	BT
Mosite 1077	Mosite Rubber Company	1734	Fluorinated Elastomer	0.075	101A	100	6.2		NI	BT	BT

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TABLE I. FLAMMABILITY OF PLASTICS, ELASTOMERS, COATINGS, FABRICS, AND OTHER SHEET MATERIALS (Continued)

Material Description, Assemblage, Etc.	Manufacturer or Source	Test No.	Composition and/or Remarks	Thickness (Inch)	Ignitor	GOX		Flame Propagation Rate Inches/Minute		Materials Rating	
						%	psia	Top Ignition	Bottom Ignition	Type I	Group I
NRC Insulation	Marshall Space Flight Center	215	Aluminized Mylar	0.0005	101A	100	1.0		BC	U	U
Nylon Tape on 3 Mil Foil		1852	Nylon Tape	0.004	101A	70	6.0		BC	U	U
Nylon Nut Lock 1/4 - 28		1604	Nylon Tape	0.250	101A	100	6.2		BC	U	U
Paint, Velvet 401 M063AL	Minnesota Mining & Mfg. Co.	41	On Wheel	0.064	101B	100	6.2		NI	BT	BT
Pall Rigi Mesh PMS	Aircraft Porous Media Co.	1600	Porous Media	0.007	101A	100	6.2		NI	S	S
Pall Rigi Mesh PMS	Aircraft Porous Media Co.	1600	Porous Media	0.017	101A	100	6.2		NI	S	S
Pall Rigi Mesh PMS	Aircraft Porous Media Co.	1600	Porous Media	0.037	101A	100	6.2		NI	S	S
Paper 7742E	Scheufelen Paper Company	1572		0.006	101A	100	6.2		BC	BT	BT
Paper 1142F 68-1276	Scheufelen Paper Company	1724		0.005	101B	100	6.2		SE	BT	BT
Paper 1142F 68-1276	Scheufelen Paper Company	1725		0.005	101A	100	6.2		SE	BT	BT
Paper 1142-F 68-1276	Scheufelen Paper Company	1726		0.005	101B	100	6.2		SE	BT	BT
Paper 7742F	Scheufelen Paper Company	1573		0.006	101A	100	6.2		BC	BT	BT
Paper 1142-FGS-E20	Scheufelen Paper Company	2066		0.013	101A	100	6.2		SE	BT	BT
Paper 1142-FGS-E20	Scheufelen Paper Company	1939		0.004	101A	70	6.2		BC	BT	BT
Paper 1142-FGS-E20 w/Prime and Reactive Coat, Top Coat	Scheufelen Paper Company	2065		0.013	101A	100	6.2		BC	BT	BT
Paper Seal, Compound V672-75	Parker Seal Company	1807		0.065	101A	100	6.2	BC	BC	U	U

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TABLE I. FLAMMABILITY OF PLASTICS, ELASTOMERS, COATINGS, FABRICS, AND OTHER SHEET MATERIALS (Continued)

Material Description, Assemblage, Etc.	Manufacturer or Source	Test No.	Composition and/or Remarks	Thickness (Inch)	Ignitor	GOX		Flame Propagation Rate Inches/Minute		Materials Rating	
						%	psia	Top Ignition	Bottom Ignition	Type I	Group I
Parcon Silicone Compound 1306-40	Parco Rubber Company	755	0.25 inch diameter O-ring	0.25	101A	100	6.2	6.6		U	U
Penton	Hercules Powder Company	628	Chlorinated polyethylene	0.005	101A	100	6.2	37.9		U	U
Penton	Hercules Powder Company	625	Chlorinated polyethylene	0.010	101A	100	6.2	24.6		U	U
Penton	Hercules Powder Company	624	Chlorinated polyethylene	0.020	101A	100	6.2	21.0		U	U
Penton	Hercules Powder Company	619	Chlorinated polyethylene	0.030	101A	100	6.2	20.4		U	U
Penton	Hercules Powder Company	621	Chlorinated polyethylene	0.040	101A	100	6.2	16.8		U	U
Penton	Hercules Powder Company	613	Chlorinated polyethylene	0.050	101A	100	6.2	15.6		U	U
Penton	Hercules Powder Company	6.0	Chlorinated polyethylene	0.060	101A	100	6.2	13.8		U	U
Penton	Hercules Powder Company	607	Chlorinated polyethylene	0.080	101A	100	6.2	10.8		U	U
Penton	Hercules Powder Company	631	Chlorinated polyethylene	0.115	101A	100	6.2	7.2		U	U
Penton	Hercules Powder Company	633	Chlorinated polyethylene	0.245	101A	100	6.2	3.7		U	U
PC-22	Hysol Chemical Company	1175		0.080	101A	100	6.2		BC	U	U
Phenolic Impregnated Fiberglass	McDonnell Douglas Corporation Western Division	79	Phenolic		101B	100	6.2		BC	U	U
Pile Tape P-537 Beta Ground Tape - Teflon Pile Etched Modified Fluorel Backing	Velcro Corporation	1591	Modified Tape	0.125	101A	100	6.2		NI	BT	BT
Plaskon CTFE 2200	Allied Chemical Company	1753	Chlorofluorocarbon resin	0.065	101A	100	6.2		BC	U	BT

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TABLE I. FLAMMABILITY OF PLASTICS, ELASTOMERS, COATINGS, FABRICS, AND OTHER SHEET MATERIALS (Continued)

Material Description, Assemblage, Etc.	Manufacturer or Source	Test No.	Composition and/or Remarks	Thickness (Inch)	Ignitor	GOX		Flame Propagation Rate Inches/Minute		Materials Rating	
						%	psia	Top Ignition	Bottom Ignition	Type I	Group I
Plaskon CTFE 2200	Allied Chemical Company	1754	Chlorofluorocarbon resin	0.100	101A	100	6.2		BC	U	BT
Plaskon CTFE 2200	Allied Chemical Company	1755	Chlorofluorocarbon resin	0.120	101A	100	6.2		BC	U	BT
Plaskon CTFE 2200	Allied Chemical Company	1759	Chlorofluorocarbon resin	0.220	101A	100	6.2		BC	U	BT
Plaskon CTFE 2200	Allied Chemical Company	1760	Chlorofluorocarbon resin	0.375	101A	100	6.2		SE	U	BT
Polyacrylate Compound RA-325-70A (30-160)	Non-Metallic Materials Branch, MSFC	310		0.075	101A	100	6.2	3.2		U	U
Polycast Acrylic 101	Polycast Corporation	1863	Acrylic	0.063	101A	70	6.0		BC	U	U
Polycast Acrylic 101	Polycast Corporation	1868	Acrylic	0.063	101A	40	10.5		BC	U	U
Polycast Acrylic 101	Polycast Corporation	1875	Acrylic	0.063	101A	Air	14.7		BC	U	U
Polycast Acrylic 101	Polycast Corporation	1878	Acrylic	0.063	101A	Air	14.7		BC	U	U
Polycast Acrylic Type 101	Polycast Corporation	1041		0.060	101A	100	6.2	7.8		U	U
Polycast Acrylic 101	Polycast Corporation	1579	Acrylic	0.057	101A	100	6.2		BC	U	U
Polyethane		1886	Polyethane	0.060	101A	40	10.5		BC	U	U
Polyimide Box	Marshall Space Flight Center	2022	Polyimide	0.85	101B	100	6.2		NI	S	S
Polyimide Laminate B	McDonnell Douglas Corporation Eastern Division	64	Polyimide	0.060	101B	100	6.2		SE - 5/8"	BT	S
Polyimide Laminate B	McDonnell Douglas Corporation Eastern Division	65	Polyimide	0.060	101A	100	6.2		NI	S	S

TABLE I. FLAMMABILITY OF PLASTICS, ELASTOMERS, COATINGS, FABRICS, AND OTHER SHEET MATERIALS (Continued)

Material Description, Assemblage, Etc.	Manufacturer or Source	Test No.	Composition and/or Remarks	Thickness (Inch)	Ignitor	GOX		Flame Propagation Rate Inches/Minute		Materials Rating	
						%	psia	Top Ignition	Bottom Ignition	Type I	Group I
Polymer SP-1, Batch 3-467-3	E. I. du Pont de Nemours & Company	727	Polyimide	0.060	101A	100	6.2		NI	BT	BT
Polymer SP-1	E. I. du Pont de Nemours & Company	729	Polyimide	0.125	101A	100	6.2		NI	BT	BT
Polymer SP-1	E. I. du Pont de Nemours & Company	733	Polyimide	0.025	101A	100	6.2		NI	BT	BT
Polymer SP-21	E. I. du Pont de Nemours & Company	731	Filled polyimide	0.125	101A	100	6.2		NI	BT	BT
Polymer SP-21	E. I. du Pont de Nemours & Company	734	Filled polyimide	0.250	101A	100	6.2		NI	BT	BT
Polypropylene Foam (Rigid)	Haveg Industries	1239	Polypropylene	0.060	101A	100	6.2		BC	U	U
Polypropylene Foam (Flexible)	Haveg Industries	1240	Polypropylene	0.063	101A	100	6.2		BC	U	U
Polytrim, Tedlar S, ABS Flame Retardant	Polyplastic United, Inc.	1245		0.014	101A	100	6.2		BC	U	U
Polyurethane Foam 340	Cook Paint & Varnish Company	1738	Polyurethane per ASTM D1692	1.5	Bunsen Burner	Air	14.7		SE	BT	S
Polyurethane	Goodyear Corporation	1873	Polyurethane	0.060	101A	Air	14.7		SE - 1 1/2"	S	S
Polyurethane Estane	Goodyear Corporation	1874	Polyurethane	0.060	101A	26	11.7		SE - 1 3/4"	BT	BT
Polyurethane Estane	Goodyear Corporation	1886	Polyurethane	0.060	101A	30.9	10.9		BC	U	U
Polyurethane Estane	Goodyear Corporation	1886	Polyurethane	0.060	101A	28	10.9		BC	U	U
Porcelain Enamel, M8-2-1 on Aluminum Foil	Marshall Space Flight Center	1635	Porcelain-Foil	0.0018	101A	100	6.2		NI	S	S

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TABLE I. FLAMMABILITY OF PLASTICS, ELASTOMERS, COATINGS, FABRICS, AND OTHER SHEET MATERIALS (Continued)

Material Description, Assemblage, Etc.	Manufacturer or Source	Test No.	Composition and/or Remarks	Thickness (Inch)	Ignitor	GOX		Flame Propagation Rate Inches/Minute		Materials Rating	
						%	psia	Top Ignition	Bottom Ignition	Type I	Group I
Porcelain Enamel, M8-2-3 on 1 Mil Foil, 0.18 Mil Porcelain	Marshall Space Flight Center	1636	Porcelain-Foil	0.0012	101A	100	6.2		NI	S	S
Porcelain Enamel, L6-9-2 on 3 Mil Foil	Marshall Space Flight Center	1637	Porcelain-Foil	0.0046	101A	100	6.2		NI	S	S
Porcelain Enamel, L9-2-1 on 2 Mil Foil	Marshall Space Flight Center	1637	Porcelain-Foil	0.0046	101A	100	6.2		NI	S	S
Porcelain Enamel, L6-6-3 on 3 Mil Foil	Marshall Space Flight Center	1639	Porcelain-Foil	0.005	101A	100	6.2		NI	S	S
PR-1535	Product Research Corporation	1152	Polyurethane	0.090	101A	100	6.2		BC	U	U
PR-1538 Clear	Products Research Corporation		Polyurethane	0.188	101A	100	6.2	18.6		U	U
PR-1538 Clear	Products Research Corporation	1087	Polyurethane	0.115	101A	100	6.2	27.6		U	U
PR-1538 Clear	Products Research Corporation	1085	Polyurethane	0.100	101A	100	6.2	21.0	0.67	U	U
PR-1527	Products Research Corporation		Polyurethane	0.188	101A	100	6.2	18.0		U	U
Proseal 796-80	Coast Proseal Company	1183	Silicone	0.080	101A	100	6.2	BC	BC	U	U
Proseal 796-65	Coast Proseal Company	1099	Silicone	0.085	101A	100	6.2		BC	U	U
Proseal 796-80 (Clear)	Coast Proseal Company	1186	Silicone	0.120	101A	100	6.2	BC	BC	U	U
Pyralin P12501 Polyimide-Glass Cloth	E. I. du Pont de Nemours Co., & Inc.	1632	Polyimide-Glass Cloth	0.037	101A	100	6.2		NI	BT	BT
Pyralin, 7 Ply Laminate	E. I. du Pont de Nemours Co., & Inc.	1633	Polyimide Laminate	0.057	101A	100	6.2		NI	BT	BT

TABLE I. FLAMMABILITY OF PLASTICS, ELASTOMERS, COATINGS, FABRICS, AND OTHER SHEET MATERIALS (Continued)

Material Description, Assemblage, Etc.	Manufacturer or Source	Test No.	Composition and/or Remarks	Thickness (Inch)	Ignitor	GOX		Flame Propagation Rate Inches/Minute		Materials Rating	
						%	psia	Top Ignition	Bottom Ignition	Type I	Group I
Pyralin 1632	E. I. du Pont de Nemours Co., & Inc.	1689	Polyimide	0.038	101B	100	6.2		SE - 1/4"	BT	S
Pyralin 1632	E. I. du Pont de Nemours Co., & Inc.	1689	Polyimide	0.038	101B	100	6.2		SE - 1/4"	BT	S
Pyralin 1633	E. I. du Pont de Nemours Co., & Inc.	1682	Polyimide	0.058	101B	100	6.2		SE - 1/2"	BT	BT
Pyralin 1633	E. I. du Pont de Nemours Co., & Inc.	1682	Polyimide	0.058	101B	100	6.2		SE - 1/4"	BT	BT
QC-20046	Dow Corning Corporation	231	Fluorosilicone	0.058	101A	100	6.2	5.0		U	U
Raybestos 101	Raybestos Manhattan Company	1565	Filled Teflon	0.160	101A	100	6.2		NI	BT	BT
Raybestos 103	Raybestos Manhattan Company	1565a	Filled Teflon	0.160	101A	100	6.2		NI	BT	BT
Red Carpet	Sequoyan, Inc.	1838	Nylon	0.375	101A	70	6.0		BC	U	U
Red Wing Silicone Rubber		114	Silicone	0.125	101B	70	10.0		BC	U	U
Red Wing Silicone Rubber		1668	Silicone	0.125	101A	60	6.2		BC	U	U
Refset, 10 Mil Thick on 1 Mil Aluminum Foil	Raybestos Manhattan Compajy	1858	Fluoroelastomer	0.011	101A	70	6.0		NI	BT	BT
Refset Coated Kraft Paper	Raybestos Manhattan Company	1854	Fluoroelastomer Coated Paper	0.009	101A	70	6.0		BC	U	U
Refset 1564 Coated Glass	Raybestos Manhattan Company	1624	Fluoroelastomer	0.017	101A	100	6.2		NI	BT	BT
Refset L-2231, 1/4" OD Tube	Raybestos Manhattan Company	1894	Fluoroelastomer		101B	70	6.2		SE - 1/16"	BT	BT
Refset L3203-6	Raybestos Manhattan Company	1678a	Fluoroelastomer	0.125	101B	100	6.2		NI	BT	BT

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TABLE I. FLAMMABILITY OF PLASTICS, ELASTOMERS, COATINGS, FABRICS, AND OTHER SHEET MATERIALS (Continued)

Material Description, Assemblage, Etc.	Manufacturer or Source	Test No.	Composition and/or Remarks	Thickness (Inch)	Ignitor	GOX		Flame Propagation Rate Inches/Minute		Materials Rating	
						%	psia	Top Ignition	Bottom Ignition	Type I	Group I
Refset L3203-6	Raybestos Manhattan Company	1678b	Fluoroelastomer	0.125	101B	100	6.2		SE - 1/2"	BT	BT
Refset L3203-6	Raybestos Manhattan Company	1687c	Fluoroelastomer	0.125	101A	100	6.2		NI	BT	BT
Refset L3203-6 Soaked in FC 75	Raybestos Manhattan Company	123	Fluoroelastomer	0.088	101B	100	6.2		SE - 6"	BT	BT
Refset L3203-6	Raybestos Manhattan Company	1589	Fluoroelastomer	0.090	101A	100	6.2		NI	BT	BT
Refset L3203-6	Raybestos Manhattan Company	1568	Fluoroelastomer	0.87	101A	100	6.2		NI	BT	BT
Refset L3203-6	Raybestos Manhattan Company	1647	Fluoroelastomer	0.075	101A	100	6.2		NI	BT	BT
Refset L3203-6	Raybestos Manhattan Company	1679	Fluoroelastomer	0.068	101B	100	6.2		SE - 1"	BT	BT
Refset L3203-6	Raybestos Manhattan Company	1679	Fluoroelastomer	0.068	101B	100	6.2		SE - 1/4"	BT	BT
Refset L3203-6	Raybestos Manhattan Company	1679	Fluoroelastomer	0.068	101A	100	6.2		NI	BT	BT
Refset L3203-6	Raybestos Manhattan Company	1677c	Fluoroelastomer	0.032	101B	100	6.2		BC	BT	BT
Refset L3203-6	Raybestos Manhattan Company	1677b	Fluoroelastomer	0.032	101B	100	6.2		BC	BT	BT
Refset L3203-6, Style RL-3542	Raybestos Manhattan Company	4	Fluoroelastomer	0.086	101A	70	14.0		BC	BT	BT
Refset L3203-6, Style RL-3542	Raybestos Manhattan Company	5	Fluoroelastomer	0.086	101B	70	14.0		BC	BT	BT
Refset L3203-6, Style RL-3542	Raybestos Manhattan Company	1816	Fluoroelastomer	0.086	101A	100	6.2		NI	BT	BT
Refset L3203-6, Style RL-3542	Raybestos Manhattan Company	122	Fluoroelastomer	0.086	101B	100	6.2		SE	BT	BT

TABLE I. FLAMMABILITY OF PLASTICS, ELASTOMERS, COATINGS, FABRICS, AND OTHER SHEET MATERIALS (Continued)

Material Description, Assemblage, Etc.	Manufacturer or Source	Test No.	Composition and/or Remarks	Thickness (Inch)	Ignitor	GOX		Flame Propagation Rate Inches/Minute		Materials Rating	
						%	psia	Top Ignition	Bottom Ignition	Type I	Group I
Refset L3203-6, Style RL-3542	Raybestos Manhattan Company	26	Fluoroelastomer	0.040	101B	70	6.2		SE - 10"	BT	BT
Refset L3203-6, Style RL-3542	Raybestos Manhattan Company	1835	Fluoroelastomer	0.040	101A	70	6.2		NI	BT	BT
Refset L3203-6, Style RL-3542	Raybestos Manhattan Company	1774	Fluoroelastomer	0.020	101A	100	6.2		BC	BT	BT
Refset L3203-6, Style RL-3542	Raybestos Manhattan Company	33	Fluoroelastomer	0.020	101A	60	10.5		NI	BT	BT
Refset L3203-6, Style RL-3542	Raybestos Manhattan Company	34	Fluoroelastomer	0.020	101A	50	8.5		NI	BT	BT
Refset L3203-6, Style RL-3542	Raybestos Manhattan Company	14	Fluoroelastomer	0.020	101B	70	6.2		BC	BT	BT
Refset L3203-6, Style RL-3542	Raybestos Manhattan Company	27	Fluoroelastomer	0.020	101B	70	6.2		SE - 10"	BT	BT
Refset L3203-6, Style RL-3542	Raybestos Manhattan Company	29	Fluoroelastomer	0.020	101A	70	6.2		NI	BT	BT
Refset L3203-6, Style RL-3542	Raybestos Manhattan Company	1822	Fluoroelastomer	0.020	101A	70	6.2		SE - 3"	BT	BT
Refset L3203-6, Style RL-3542	Raybestos Manhattan Company	30	Fluoroelastomer	0.020	101A	60	7.0		NI	BT	BT
Refset L3203-6, Style RL-3542	Raybestos Manhattan Company	35	Fluoroelastomer	0.020	101A	30.9	12.0		NI	BT	BT
Refset L3203-6, Style RL-3542	Raybestos Manhattan Company	31	Fluoroelastomer	0.020	101A	50	7.0		NI	BT	BT

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TABLE I. FLAMMABILITY OF PLASTICS, ELASTOMERS, COATINGS, FABRICS, AND OTHER SHEET MATERIALS (Continued)

Material Description, Assemblage, Etc.	Manufacturer or Source	Test No.	Composition and/or Remarks	Thickness (Inch)	Ignitor	GOX		Flame Propagation Rate Inches/Minute		Materials Rating	
						%	psia	Top Ignition	Bottom Ignition	Type I	Group I
Refset L3203-6, Style RL-3542	Raybestos Manhattan Company	1818	Fluoroelastomer	0.086	101B	100	6.2		BC	BT	BT
Refset L3203-6, Style RL-3542	Raybestos Manhattan Company	24	Fluoroelastomer	0.086	101B	70	6.2		NI	BT	BT
Refset L3203-6, Style RL-3542	Raybestos Manhattan Company	3	Fluoroelastomer	0.063	101A	70	14.0		BC	U	U
Refset L3203-6, Style RL-3542	Raybestos Manhattan Company	1819	Fluoroelastomer	0.063	101B	100	6.2		SE - 3"	BT	BT
Refset L3203-6, Style L-3542	Raybestos Manhattan Company	1821	Fluoroelastomer	0.063	101A	100	6.2		NI	BT	BT
Refset L3203-6, Style RL-3542	Raybestos Manhattan Company	1778	Fluoroelastomer	0.063	101A	100	6.2		NI	BT	BT
Refset L3203-6, Style RL-3542	Raybestos Manhattan Company	1815	Fluoroelastomer	0.063	101A	100	6.2		NI	BT	BT
Refset L3203-6, Style RL-3542	Raybestos Manhattan Company	13	Fluoroelastomer	0.063	101B	70	6.2		SE - 2 1/2"	BT	BT
Refset L3203-6, Style RL-3542	Raybestos Manhattan Company	25	Fluoroelastomer	0.063	101B	70	6.2		NI	BT	BT
Refset L3203-6, Style RL-3542	Raybestos Manhattan Company	1836	Fluoroelastomer	0.063	101A	70	6.2		NI	BT	BT
Refset L3202-6, Style RL-3542	Raybestos Manhattan Company	1817	Fluoroelastomer	0.040	101A	100	6.2		BC	U	BT
Refset L3203-6, Style RL-3542	Raybestos Manhattan Company	16	Fluoroelastomer	0.040	101B	70	6.2		SE - 10"	BT	BT

TABLE I. FLAMMABILITY OF PLASTICS, ELASTOMERS, COATINGS, FABRICS, AND OTHER SHEET MATERIALS (Continued)

Material Description, Assemblage, Etc.	Manufacturer or Source	Test No.	Composition and/or Remarks	Thickness (Inch)	Ignitor	GOX		Flame Propagation Rate Inches/Minute		Materials Rating	
						%	psia	Top Ignition	Bottom Ignition	Type I	Group I
Refset L3203-6, Style RL-3542	Raybestos Manhattan Company	32	Fluoroelastomer	0.020	101A	40	7.0		NI	BT	BT
Refset L3217	Raybestos Manhattan Company	1620	Fluoroelastomer	0.092	101A	100	6.2		SE - 1/2"	BT	BT
Refset L3217	Raybestos Manhattan Company	1601	Fluoroelastomer	0.092	101A	100	6.2		SE - 1/2"	BT	BT
Refset L3217	Raybestos Manhattan Company	1683	Fluoroelastomer	0.072	101B	100	6.2		BC	U	U
Refset L3217-1	Raybestos Manhattan Company	1676	Fluoroelastomer	0.060	101B	100	6.2		BC	U	U
Refset L3217-1	Raybestos Manhattan Company	1676	Fluoroelastomer	0.060	101B	100	6.2		BC	U	U
Refset L3322-2	Raybestos Manhattan Company	1576	Fluoroelastomer	0.062	101A	100	6.2		NI	BT	BT
Refset 3322-2	Raybestos Manhattan Company	1585	Fluoroelastomer	0.062	101B	100	6.2		SE - 2"	BT	BT
Refset L3236, Style RL-3764-1	Raybestos Manhattan Company	1744	Fluorinated Silicone Elastomer	0.090	101B	100	10.0		BC	U	U
Refset L3236, Style RL-3764-1	Raybestos Manhattan Company	1	Fluorinated Silicone Elastomer	0.090	101B	70	14.0		BC	BT	BT
Refset L3236, Style RL-3764-1	Raybestos Manhattan Company	8	Fluorinated Silicone Elastomer	0.085	101B	70	14.0		BC	BT	BT
Refset L3236, Style RL-3764-1	Raybestos Manhattan Company	7	Fluorinated Silicone Elastomer	0.085	101B	70	14.0		NI	BT	BT
Refset L3236, Style RL-3764-1	Raybestos Manhattan Company	1721	Fluorinated Silicone Elastomer	0.085	101B	100	6.2		NI	BT	BT
Refset L3236, Style RL-3764-1	Raybestos Manhattan Company	1721	Fluorinated Silicone Elastomer	0.085	101A	100	6.2		NI	BT	BT

TABLE I. FLAMMABILITY OF PLASTICS, ELASTOMERS, COATINGS, FABRICS, AND OTHER SHEET MATERIALS (Continued)

Material Description, Assemblage, Etc.	Manufacturer or Source	Test No.	Composition and/or Remarks	Thickness (Inch)	Ignitor	GOX		Flame Propagation Rate Inches/Minute		Materials Rating	
						%	psia	Top Ignition	Bottom Ignition	Type I	Group I
Refset L3236, Style RL-3764-1	Raybestos Manhattan Company	20	Fluorinated Silicone Elastomer	0.085	101B	70	6.0		SE - 2.1"	BT	BT
Refset L3236, Style RL-3764-1	Raybestos Manhattan Company	71	Fluorinated Silicone Elastomer	0.085	101B	70	6.0		SE - 3/4"	BT	BT
Refset L3236, Style RL-3764-1	Raybestos Manhattan Company	72	Fluorinated Silicone Elastomer	0.085	101B	60	7.0		SE - 6"	BT	BT
Refset L3236, Style RL-3764-1	Raybestos Manhattan Company	73	Fluorinated Silicone Elastomer	0.085	101B	50	7.0		NI	BT	BT
Refset L3236, Style RL-3764-1	Raybestos Manhattan Company	74	Fluorinated Silicone Elastomer	0.085	101B	50	8.5		NI	BT	BT
Refset L3236, Style RL-3764-1	Raybestos Manhattan Company	75	Fluorinated Silicone Elastomer	0.085	101B	40	7.0		NI	BT	BT
Refset L3236, Style RL-3764	Raybestos Manhattan Company	1745	Fluorinated Silicone Elastomer	0.064	101B	100	10.0		BC	U	U
Refset L3236, Style RL-3764	Raybestos Manhattan Company	9	Fluorinated Silicone Elastomer	0.064	101A	70	14.0		NI	BT	BT
Refset L3236 Style RL-3764	Raybestos Manhattan Company	2	Fluorinated Silicone Elastomer	0.060	101A	70	14.0		BC	U	U
Refset L3236, Style RL-3764	Raybestos Manhattan Company	1718	Fluorinated Silicone Elastomer	0.060	101B	100	6.2		NI	BT	BT
Refset L3236, Style RL-3764	Raybestos Manhattan Company	1718	Fluorinated Silicone Elastomer	0.060	101A	100	6.2		NI	BT	BT
Refset L3236, Style RL-3764	Raybestos Manhattan Company	1714	Fluorinated Silicone Elastomer	0.060	101A	100	6.2		BC	BT	BT

TABLE I. FLAMMABILITY OF PLASTICS, ELASTOMERS, COATINGS, FABRICS, AND OTHER SHEET MATERIALS (Continued)

Material Description, Assemblage, Etc.	Manufacturer or Source	Test No.	Composition and/or Remarks	Thickness (Inch)	Ignitor	GOX		Flame Propagation Rate Inches/Minute		Materials Rating	
						%	psia	Top Ignition	Bottom Ignition	Type I	Group I
Refset L3236, Sytle RL-3764	Raybestos Manhattan Company	1570	Fluorinated Silicone Elastomer	0.060	101A	100	6.2		NI	BT	BT
Refset L3236, Style RL-3764	Raybestos Manhattan Company	1712	Fluorinated Silicone Elastomer	0.060	101B	100	6.2		NI	BT	BT
Refset L3236, Style RL-3764	Raybestos Manhattan Company	12	Fluorinated Silicone Elastomer	0.060	101B	70	6.2		SE	BT	BT
Refset L3236, Style RL-3764	Raybestos Manhattan Company	54	Fluorinated Silicone Elastomer	0.060	101B	70	6.2		SE - 7 1/4"	BT	BT
Refset L3236, Style RL-3764	Raybestos Manhattan Company	63	Fluorinated Silicone Elastomer	0.060	101B	70	6.2		SE	BT	BT
Refset L3236, Style RL-3764	Raybestos Manhattan Company	66	Fluorinated Silicone Elastomer	0.060	101B	70	6.2		SE - 5 3/4"	BT	BT
Refset L3236, Style RL-3764	Raybestos Manhattan Company	23	Fluorinated Silicone Elastomer	0.060	101B	70	6.2		SE - 10"	BT	BT
Refset L3236, Style RL-3764	Raybestos Manhattan Company	67	Fluorinated Silicone Elastomer	0.060	101B	40	10.5		SE- 5 3/4"	BT	BT
Refset L3236, Style RL-3764	Raybestos Manhattan Company	53	Fluorinated Silicone Elastomer	0.060	101B	28	11.7		BC	BT	BT
Refset L3236, Style RL-3764	Raybestos Manhattan Company	52	Fluorinated Silicone Elastomer	0.060	101B	Air	14.0		NI	BT	BT
Refset L3236, Style RL-3764	Raybestos Manhattan Company	21	Fluorinated Silicone Elastomer	0.060	101B	30	6.0		SE - 2 1/2"	BT	BT
Refset L3236, Style RL-3764-2	Raybestos Manhattan Company	1713	Fluorinated Silicone Elastomer	0.047	101A	100	6.2		BC	BT	BT
Refset L3236, Style RL-3764-2	Raybestos Manhattan Company	1712	Fluorinated Silicone Elastomer	0.047	101B	100	6.2		NI	BT	BT
Refset L3236, Style RL-3764-1	Raybestos Manhattan Company	10	Fluorinated Silicone Elastomer	0.047	101A	70	14.0		NI	BT	BT
Refset L3236, Style RL-3764	Raybestos Manhattan Company	51	Fluorinated Silicone Elastomer	0.047	101A	70	6.2		NI	BT	BT
Refset L3236, Style RL-3764	Raybestos Manhattan Company	22	Fluorinated Silicone Elastomer	0.047	101B	70	6.2		SE - 10"	BT	BT
Refset L3236, Style RL-3764	Raybestos Manhattan Company	59	Fluorinated Silicone Elastomer	0.047	101B	60	7.0		SE - 1/4"	BT	BT

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TABLE I. FLAMMABILITY OF PLASTICS, ELASTOMERS, COATINGS, FABRICS, AND OTHER SHEET MATERIALS (Continued)

Material Description, Assemblage, Etc.	Manufacturer or Source	Test No.	Composition and/or Remarks	Thickness (Inch)	Ignitor	GOX		Flame Propagation Rate Inches/Minute		Materials Rating	
						%	psia	Top Ignition	Bottom Ignition	Type I	Group I
Refset L3236, Style RL-3764	Raybestos Manhattan Company	49	Fluorinated Silicone Elastomer	0.047	101B	30.5	11.7		BC	BT	BT
Refset L3236	Raybestos Manhattan Company	61	Fluorinated Silicone Elastomer	0.047	101B	26	11.7		SE	BT	BT
Refset L3236	Raybestos Manhattan Company	62	Fluorinated Silicone Elastomer	0.047	101B	26	11.7		BC	BT	BT
Refset L3236, Style RL 3764	Raybestos Manhattan Company	60	Fluorinated Silicone Elastomer	0.047	101B	26	11.7		BC	BT	BT
Refset L3236, Style RL-3764	Raybestos Manhattan Company	50	Fluorinated Silicone Elastomer	0.047	101B	21	10.5		SE - 2 1/2"	BT	BT
Refset L3236, Style RL-3766-3	Raybestos Manhattan Company	1715	Fluorinated Silicone Elastomer	0.020	101B	100	6.2		BC	U	U
Refset L3236, Style RL-3764-3	Raybestos Manhattan Company	55	Fluorinated Silicone Elastomer	0.020	101B	60	7.0		BC	U	U
Refset L3236, Style RL-3764-3	Raybestos Manhattan Company	39	Fluorinated Silicone Elastomer	0.020	101A	70	6.0		BC	U	U
Refset L3236, Style RL-3764-3	Raybestos Manhattan Company	40	Fluorinated Silicone Elastomer	0.020	101A	60	7.0		BC	U	U
Refset L3236, Style RL-3764-3	Raybestos Manhattan Company	42	Fluorinated Silicone Elastomer	0.020	101A	60	7.0		BC	U	U
Refset L3236, Style RL-3764-3	Raybestos Manhattan Company	44	Fluorinated Silicone Elastomer	0.020	101B	40	10.5		BC	U	U
Refset L3236, Style RL-3764-3	Raybestos Manhattan Company	43	Fluorinated Silicone Elastomer	0.020	101A	50	7.0		BC	U	U

TABLE I. FLAMMABILITY OF PLASTICS, ELASTOMERS, COATINGS, FABRICS, AND OTHER SHEET MATERIALS (Continued)

Material Description, Assemblage, Etc.	Manufacturer or Source	Test No.	Composition and/or Remarks	Thickness (Inch)	Ignitor	GOX		Flame Propagation Rate Inches/Minute		Materials Rating	
						%	psia	Top Ignition	Bottom Ignition	Type I	Group I
Refset L3236, Style RL-3764-3	Raybestos Manhattan Company	48	Fluorinated Silicone Elastomer	0.020	101B	31.7	11.7		BC	U	U
Refset L3236, Style RL-3764-3	Raybestos Manhattan Company	47	Fluorinated Silicone Elastomer	0.020	101B	30.5	10.9		BC	U	U
Refset L3236, Style RL-3764-3	Raybestos Manhattan Company	45	Fluorinated Silicone Elastomer	0.020	101A	30.9	10.0		BC	U	U
Refset L3236, Style RL-3764-3	Raybestos Manhattan Company	46	Fluorinated Silicone Elastomer	0.020	101B	Air	14.0		SE	BT	BT
RL 3251	Raybestos Manhattan Company	1571	Fluoroelastomer	0.062	101A	100	6.2		SE - 3/8"	BT	BT
RL 3322 Fluorel	Raybestos Manhattan Company	1569	Fluoroelastomer	0.065	101A	100	6.2		BC	U	U
RL 3419 Fluorel Coated Beta Fabric	Raybestos Manhattan Company	1567	Fluoroelastomer	0.008	101A	96	6.2		NI	BT	BT
RL 3533 Beta Fabric	Raybestos Manhattan Company	1933	Fluoroelastomer	0.025	101B	70	6.2		SE - 1 1/2"	BT	BT
Refset 3489	Raybestos Manhattan Company	1716	Fluorel Coated Beta Fabric	0.020	101B	100	6.2		BC	BT	BT
Refset 3489	Raybestos Manhattan Company	1717	Fluorel Coated Beta Fabric	0.020	101A	100	6.2		NI	BT	BT
Refset 3489, Style 15035	Raybestos Manhattan Company	1634	Fluorel Coated Beta Fabric	0.007	101A	100	6.2		NI	BT	BT
Refset 3489	Raybestos Manhattan Company	1645	Fluorel Coated Beta Fabric	0.007	101A	100	6.2		NI	BT	BT
Refset 3489	Raybestos Manhattan Company	1680	Fluorel Coated Beta Fabric	0.008	101B	100	6.2		SE	BT	BT

TABLE I. FLAMMABILITY OF PLASTICS, ELASTOMERS, COATINGS, FABRICS, AND OTHER SHEET MATERIALS (Continued)

Material Description, Assemblage, Etc.	Manufacturer or Source	Test No.	Composition and/or Remarks	Thickness (Inch)	Ignitor	GOX		Flame Propagation Rate Inches/Minute		Materials Rating	
						%	psia	Top Ignition	Bottom Ignition	Type I	Group I
Refset RL-3550 on 1 mil Aluminum Foil	Raybestos Manhattan Company	111	Caulking Compound	0.005	101B	100	6.2		NI	BT	BT
RL 3550 over DC-3145 and EC-1663	Raybestos Manhattan Company	2037	Fluoroelastomer over Silicone		101B	100	5.0		NI	BT	BT
Refset L-3682-1	Raybestos Manhattan Company	1881	Fluoroelastomer Pigmented Blue	0.005	101A	70	6.2		NI	BT	BT
Refset L-3682-1	Raybestos Manhattan Company	1885	Fluoroelastomer Pigmented Blue	0.005	101B	70	6.2		NI	BT	BT
Refset L-3682-2	Raybestos Manhattan Company	1882	Fluoroelastomer Pigmented Orange	0.005	101B	70	6.2		NI	BT	BT
Refset L-3682-2	Raybestos Manhattan Company	1883	Fluoroelastomer Pigmented Orange	0.005	101A	70	6.2		NI	BT	BT
Refset L-3682-3	Raybestos Manhattan Company	1880	Fluoroelastomer Pigmented Red	0.005	101A	70	6.2		NI	BT	BT
Refset L-3682-3	Raybestos Manhattan Company	1884	Fluoroelastomer Pigmented Red	0.005	101B	70	6.2		NI	BT	BT
Regalite 248	Tenneco Polyglass Company		Vinyl	0.040	101B	Air	14.0		SE - 2"	S	S
Rex Asbestos K-210 25	Manned Spacecraft Center	2062	Asbestos	0.500	101B	100	6.2		SE - 4"	BT	S
Rex Asbestos K-25	Manned Spacecraft Center	2063	Asbestos	0.750	101B	100	6.2		NI	BT	S
RM, Style 581	Raybestos Manhattan Company	1237	Filled Teflon	0.250	101A	100	6.2		NI	BT	S
RM Teflon, Type 584	Raybestos Manhattan Company	1236	Filled Teflon	0.250	101A	100	6.2		NI	BT	BT
Royolite R56-8150	M.S. Rubber Company	1246		0.015	101A	100	6.2		BC	U	U

TABLE I. FLAMMABILITY OF PLASTICS, ELASTOMERS, COATINGS, FABRICS, AND OTHER SHEET MATERIALS (Continued)

Material Description, Assemblage, Etc.	Manufacturer or Source	Test No.	Composition and/or Remarks	Thickness (Inch)	Ignitor	GOX		Flame Propagation Rate Inches/Minute		Materials Rating	
						%	psia	Top Ignition	Bottom Ignition	Type I	Group I
RTV-90 Coated w/25 Mil Refset L-3203-6	General Electric Company	1857	Silicone	0.325	101A	70	6.0		NI	BT	BT
RTV-90	General Electric Company	520	Silicone	0.017	101A	100	6.2	12.6	BC - 54.0	U	U
RTV-90	General Electric Company	449	Silicone	0.091	101A	100	6.2	3.1	BC - 7.2	U	U
Red Rubber, Type TA-405	MSFC	1036	Stock No. 9320-9969036	0.063	101A	100	6.2	3.8	—	U	U
RL-2060 Fluorel Sponge	Raybestos Manhattan Company	428	Fluorocarbon Base	1.09	101A	100	6.2	5.6	18.0	U	U
RL-3203-6 Compound	Raybestos Manhattan Company	809		0.065	101A	100	6.2	—	NI	BT	BT
RL-3203-6 Compound	Raybestos Manhattan Company	933		0.065	101A	100	6.2	—	NI	BT	BT
RL-3203-6 Compound	Raybestos Manhattan Company	937		0.030	101A	100	6.2	—	NI	BT	BT
RL-3203-6 Adhesive	Raybestos Manhattan Company	1174	Applied to 1-mil Aluminum foil	0.005	101A	100	6.2	—	NI	BT	BT
RL-3492 Conformal Coating	Raybestos Manhattan Company	1168	Applied to 1-mil Aluminum foil	0.013	101A	100	6.2	—	NI	BT	BT
RL-3550 Sealant	Raybestos Manhattan Company	1163	Applied to 1-mil Aluminum foil	0.013	101A	100	6.2	—	NI	BT	BT
RTV-60	General Electric Company	550	Silicone	0.044	101A	100	6.2	8.4	BC - 24.6	U	U
RTV-90	General Electric Company	712	Silicone	0.005	101A	100	6.2	—	BC - 60.0	U	U
RTV-90	General Electric Company	708	Silicone	0.010	101A	100	6.2	18.6	BC - 46.2	U	U
Rusco B1096		1730		0.045	101A	70	6.2		BC	U	U

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TABLE I. FLAMMABILITY OF PLASTICS, ELASTOMERS, COATINGS, FABRICS, AND OTHER SHEET MATERIALS (Continued)

Material Description, Assemblage, Etc.	Manufacturer or Source	Test No.	Composition and/or Remarks	Thickness (Inch)	Ignitor	GOX		Flame Propagation Rate Inches/Minute		Materials Rating	
						%	psia	Top Ignition	Bottom Ignition	Type I	Group I
Schnee Morehead No. 5144		2059		0.075	101A	100	6.2		BC	U	U
Schneller Aerfilm	John Schneller Associates	1247		0.015	101A	100	6.2		BC	U	U
Schneller Aerfilm	John Schneller Associates	1248		0.016	101A	100	6.2		BC	U	U
Scotchcast XR5038	Minnesota Mining & Mfg. Co.	1192		0.125	101A	70	6.2		BC	U	U
S-II Insulation Composite	North American Rockwell Space Div.	521	Honeycomg-polyurethane composite	1.75	101A	100	6.2	62.4	—	U	U
Silicone Rubber, Compound RA-377-80SI	Non-Metallic Materials Branch, MSFC	401	Silicone	0.075	101A	100	6.2	2.1	—	U	U
Silicone Rubber, Compound RA-377-30SI	Non-Metallic Materials Branch, MSFC	358	Silicone	0.065	101A	100	6.2	6.0	BC - 10.8	U	U
Silicone Rubber, Compound RA-286-70SI	Non-Metallic Materials Branch, MSFC	288	Silicone	0.077	101A	100	6.2	2.4	—	U	U
Silicone Rubber, Compound SE-517	General Electric Company	705	Silicone	0.070	101A	100	6.2	3.9	—	U	U
Sodium Silicate-Refrasil Insulation	Non-Metallic Materials Branch, MSFC	546		1.32	101A	100	6.2	NI	NI	BT	BT
Scotchcast XR5038 Coated w/32 Mil Refset L-3203-6	Minnesota Mining & Mfg. Co.	1856		0.250	101A	70	6.2		BC	U	U
Sperex VHT w/Enamel on 15 Mil Aluminum	Sperex Company	1897	Protective Coating	0.060	101B	70	6.2		NI	BT	BT
Sperex VHT w/Enamel on 3 Mil Foil	Sperex Company	1898	Protective Coating	0.004	101B	70	6.2		NI	S	S

TABLE I. FLAMMABILITY OF PLASTICS, ELASTOMERS, COATINGS, FABRICS, AND OTHER SHEET MATERIALS (Continued)

Material Description, Assemblage, Etc.	Manufacturer or Source	Test No.	Composition and/or Remarks	Thickness (Inch)	Ignitor	GOX		Flame Propagation Rate Inches/Minute		Materials Rating	
						%	psia	Top Ignition	Bottom Ignition	Type I	Group I
Stainless Steel (300 Series)	Marshall Space Flight Center		Stainless Steel	0.002	101A	100	6.2		NI	BT	BT
Standard Paper (Thermocromic)	NRC Manufacturing Company	2051		0.101	101A	100	6.2		BC	U	U
Steel Wool (Degreased)		1891	Steel Wool	–	101A	70	6.2		BC	U	U
STVR Lacing Tape, Viton Coated Beta Fabric	Bently Harris	1848	Viton	0.003	101A	70	6.2		NI	BT	BT
SRGA 0213 Fabric	Minnesota Mining & Mfg. Co.	578	Aluminum face sheet, silicone rubber	0.012	101A	100	6.2	9.0	BC - 49.8	U	U
Stafoam AA-1802	Dayton Rubber Company	395	Polyurethane	1.03	101A	100	6.2	225.0	–	U	U
Stillman Compound TH-1068	Stillman Rubber Company	752	Silicone O-ring, 1/4" diameter	–	101A	100	6.2	59.4	–	U	U
Stycast 1090	Emerson & Cuming Company	568	Epoxy	0.045	101A	100	6.2	10.2	BC - 60.2	U	U
Stycast 1090 Black	Emerson & Cuming Company	1076	Epoxy	0.129	101A	100	6.2	6.6	BC - 17.4	U	U
Stycast 2850 GT	Emerson & Cuming Company	574	Epoxy	0.060	101A	100	6.2	3.1	BC - 24.0	U	U
Stycast 1090 Coated w/Refset, 34 Mils	Emerson & Cuming Company	1850	Epoxy Casting Compound	0.3125	101A	70	6.2		SE - 3/4"	BT	BT
Stycast 1090 Coated w/11 Mil Aluminum Plasma Spray	Emerson & Cuming Company	1860	Epoxy Casting Compound	0.25	101A	70	6.2		NI	S	BT
Stycast 2651B w/Refset Coat, 35 Mils	Emerson & Cuming Company	1853	Epoxy Casting Compound	0.250	101A	70	6.2		SE - 1/2"	U	BT
Sylgard 182	Dow Chemical Company	1186	Silicone Electrical Insulation	0.100	101A	100	6.2		BC	U	U

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TABLE I. FLAMMABILITY OF PLASTICS, ELASTOMERS, COATINGS, FABRICS, AND OTHER SHEET MATERIALS (Continued)

Material Description, Assemblage, Etc.	Manufacturer or Source	Test No.	Composition and/or Remarks	Thickness (Inch)	Ignitor	GOX		Flame Propagation Rate Inches/Minute		Materials Rating	
						%	psia	Top Ignition	Bottom Ignition	Type I	Group I
Sylgard 187	Dow Chemical Company	1610	Silicone Electrical Insulation	0.500	101A	100	6.2		BC	U	U
Tedlar 200 AM-30WH	E. I. du Pont de Nemours & Co.	419	Polyvinyl fluoride	0.002	101A	100	6.2	120.0	—	U	U
Tedlar 200 BG-30WH	E. I. du Pont de Nemours & Co.	415	Polyvinyl fluoride	0.002	101A	100	6.2	90.0	BC - 16.8	U	U
Teflon FEP	E. I. du Pont de Nemours & Co.	975		0.005	101A	100	6.2	NI	BC - 19.8	U	U
Teflon FEP	E. I. du Pont de Nemours & Co.	986		0.005	101A	100	6.2	SE	BC - 18.6	U	U
Teflon FEP	E. I. du Pont de Nemours & Co.	987		0.001	101A	100	6.2	NI	BC - 102.0	U	U
Teflon (TFE) Coated Nomex 98-101	E. I. du Pont de Nemours & Co.	716		0.010	101A	100	6.2	SE	BC - 10.2	U	U
Teflon F60A-9308, Copper clad (one side)	Dodge Industries	1557	Teflon-glass laminate	0.094	101A	100	6.2		NI	S	S
Teflon Coated Aluminum Foil, 3 Mil	Minnesota Mining & Mfg. Co.	1578	Teflon Bonded to Foil	0.012	101A	100	6.2		NI	S	S
Teflon Coated Aluminum Foil	McDonnell Douglas Corp., Western Division	1659	Teflon Bonded to Foil	0.005	101A	100	6.2		NI	S	S
Teflon, Yellow, 2 Mil on 3 Mil Aluminum Foil	McDonnell Douglas Corp., Western Division	1688	Teflon	0.002	101B	100	6.2		NI	S	S
Teflon, Yellow, 2 Mil on 3 Mil Aluminum Foil	McDonnell Douglas Corp., Western Division	1688	Teflon	0.002	101B	100	6.2		NI	S	S
Teflon Coated Beta Cloth Armalon 95-049	E. I. du Pont de Nemours & Co.	1597	Teflon/Beta Cloth	0.008	101A	100	6.2		NI	S	S
Teflon Coated Beta Yarn Y44848	Owens Corning	1220	Teflon plus Yarn	0.006	101A	100	6.2		NI	BT	BT

TABLE I. FLAMMABILITY OF PLASTICS, ELASTOMERS, COATINGS, FABRICS, AND OTHER SHEET MATERIALS (Continued)

Material Description, Assemblage, Etc.	Manufacturer or Source	Test No.	Composition and/or Remarks	Thickness (Inch)	Ignitor	GOX		Flame Propagation Rate Inches/Minute		Materials Rating	
						%	psia	Top Ignition	Bottom Ignition	Type I	Group I
Teflon Covered Adel Clamp P/N 457		1803	Teflon Coat	–	101B	100	6.2		NI	BT	BT
Teflon Felt MDSE-1029	GAF Corporation	1795	Teflon w/Felt	0.050	101B	100	6.2		NI	BT	BT
Teflon FEP	E. I. du Pont de Nemours & Co.	1653	Fluorinated Ethylene Propylene	0.500	101A	70	6.2		SE - 1/2"	BT	BT
Teflon FEP	E. I. du Pont de Nemours & Co.	1692	Fluorinated Ethylene Propylene	0.250	101B	100	6.2		SE - 1/16"	BT	BT
Teflon FEP	E. I. du Pont de Nemours & Co.,	1704	Fluorinated Ethylene Propylene	0.250	101A	70	6.2		SE - 1/8"	BT	BT
Teflon FEP	E. I. du Pont de Nemours & Co.	1692	Fluorinated Ethylene Propylene	0.250	101B	100	6.2		SE - 1/16"	BT	BT
Teflon FEP	E. I. du Pont de Nemours & Co.	1707	Fluorinated Ethylene Propylene	0.265	101A	70	6.2		SE - 1/8"	BT	BT
Teflon FEP	E. I. du Pont de Nemours & Co.	1889	Fluorinated Ethylene Propylene	0.005	101A	70	6.2		NI	BT	BT
Teflon TFE	E. I. du Pont de Nemours & Co.	1691	Tetrafluoroethylene Resin	0.312	101B	100	6.2		SE - 1/4"	BT	BT
Teflon TFE	E. I. du Pont de Nemours & Co.	1650	Tetrafluoroethylene Resin	0.312	101A	100	6.2		SE - 1/2"	BT	BT
Teflon TFE	E. I. du Pont de Nemours & Co.	1691	Tetrafluoroethylene Resin	0.312	101B	100	6.2		NI	BT	BT
Teflon TFE	E. I. du Pont de Nemours & Co.	1618	Tetrafluoroethylene Resin	0.275	101A	100	6.2		SE - 2"	BT	BT
Teflon TFE	E. I. du Pont de Nemours & Co.	1649	Tetrafluoroethylene Resin	0.265	101A	100	6.2		SE - 3 1/2"	BT	BT

TABLE I. FLAMMABILITY OF PLASTICS, ELASTOMERS, COATINGS, FABRICS, AND OTHER SHEET MATERIALS (Continued)

Material Description, Assemblage, Etc.	Manufacturer or Source	Test No.	Composition and/or Remarks	Thickness (Inch)	Ignitor	GOX		Flame Propagation Rate Inches/Minute		Materials Rating	
						%	psia	Top Ignition	Bottom Ignition	Type I	Group I
Teflon TFE	E. I. du Pont de Nemours & Co.	1690	Tetrafluoroethylene Resin	0.250	101B	100	6.2		NI	BT	BT
Teflon TFE	E. I. du Pont de Nemours & Co.	1617	Tetrafluoroethylene Resin	0.200	101A	100	6.2		BC	BT	BT
Teflon TFE	E. I. du Pont de Nemours & Co.	1616	Tetrafluoroethylene Resin	0.125	101A	100	6.2		BC	U	BT
Teflon TFE	E. I. du Pont de Nemours & Co.	1612	Tetrafluoroethylene Resin	0.062	101B	100	6.2		BC	U	BT
Teflon TFE	E. I. du Pont de Nemours & Co.	113	Tetrafluoroethylene Resin	0.062	101A	30	10.0		SE - 1/16"	U	BT
Teflon TFE	E. I. du Pont de Nemours & Co.	1709	Tetrafluoroethylene Resin	0.060	101A	100	6.2		NI	U	BT
Teflon TFE	E. I. du Pont de Nemours & Co.	1611	Tetrafluoroethylene Resin	0.032	101A	100	6.2		BC	U	BT
Teflon TFE	E. I. du Pont de Nemours & Co.	28	Tetrafluoroethylene Resin	0.032	101B	70	6.0		SE - 9 3/4"	U	BT
Teflon TFE	E. I. du Pont de Nemours & Co.	69	Tetrafluoroethylene Resin	0.032	101B	70	6.0		BC	U	BT
Teflon TFE	E. I. du Pont de Nemours & Co.	1615	Tetrafluoroethylene Resin	0.030	101A	100	6.2		BC	U	BT
Teflon TFE	E. I. du Pont de Nemours & Co.	1690	Tetrafluoroethylene Resin	0.025	101B	100	6.2		NI	BT	BT
Teflon TFE	E. I. du Pont de Nemours & Co.	37	Tetrafluoroethylene Resin	0.010	101B	70	6.0		SE - 10"	U	BT

TABLE I. FLAMMABILITY OF PLASTICS, ELASTOMERS, COATINGS, FABRICS, AND OTHER SHEET MATERIALS (Continued)

Material Description, Assemblage, Etc.	Manufacturer or Source	Test No.	Composition and/or Remarks	Thickness (Inch)	Ignitor	GOX		Flame Propagation Rate Inches/Minute		Materials Rating	
						%	psia	Top Ignition	Bottom Ignition	Type I	Group I
Teflon TFE	E. I. du Pont de Nemours & Co.	68	Tetrafluoroethylene Resin	0.010	101B	100	6.0		BC	U	BT
Teflon TFE	E. I. du Pont de Nemours & Co.	18	Tetrafluoroethylene Resin	0.010	101B	70	6.0		SE - 4 1/2"	BT	BT
Teflon TFE	E. I. du Pont de Nemours & Co.	36	Tetrafluoroethylene Resin	0.005	101B	70	6.0		SE - 10"	U	BT
Teflon TFE	E. I. du Pont de Nemours & Co.	19	Tetrafluoroethylene Resin	0.005	101B	70	6.0		SE - 10"	U	BT
Teflon TFE	E. I. du Pont de Nemours Co.,	115	Tetrafluoroethylene Resin	0.005	101B	70	10		NI	U	BT
Teflon TFE Coated X400 Fabric	Dodge Industries	1840	Teflon w/Fabric	0.012	101A	70	6.2		BC	U	U
Tenneco Polyglass	Tenneco Company	1657	Methacrylate	0.040	Bunsen Burner	Air	14.7		SE - 1"	U	BT
Tenite I	Eastman Organic Chemicals Co.	576	Cellulose Acetate	0.005	101A	100	6.2	–	BC - 22.2	U	U
Tenite I	Eastman Organic Chemicals Co.	606	Cellulose Acetate	0.010	101A	100	6.2	42.6	–	U	U
Tenite I	Eastman Organic Chemicals Co.	601	Cellulose Acetate	0.020	101A	100	6.2	26.4	–	U	U
Tenite I	Eastman Organic Chemicals Co.	600	Cellulose Acetate	0.030	101A	100	6.2	18.0	–	U	U
Tenite I	Eastman Organic Chemicals Co.	595	Cellulose Acetate	0.040	101A	100	6.2	16.8	–	U	U
Tenite I	Eastman Organic Chemicals Co.	592	Cellulose Acetate	0.050	101A	100	6.2	16.2	–	U	U
Tenite I	Eastman Organic Chemicals Co.	589	Cellulose Acetate	0.060	101A	100	6.2	14.4	–	U	U

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TABLE I. FLAMMABILITY OF PLASTICS, ELASTOMERS, COATINGS, FABRICS, AND OTHER SHEET MATERIALS (Continued)

Material Description, Assemblage, Etc.	Manufacturer or Source	Test No.	Composition and/or Remarks	Thickness (Inch)	Ignitor	GOX		Flame Propagation Rate Inches/Minute		Materials Rating	
						%	psia	Top Ignition	Bottom Ignition	Type I	Group I
Trevarno F-130 Tubing 32% Silicone, Coated w/RL-3788	Coast Manufacturing Company	1895	Silicone plus Fluoroelastomer		101B	70	6.2		BC	U	U
Trevarno F-154 Epoxy-Glass Laminate	Coast Manufacturing Company	1758	Epoxy-Glass Laminate	0.500	Bunsen Burner	Air	14.7		NI	S	S
Urethane Compound, RA 333-70U	Non-Metallic Materials Branch, MSFC	398		0.080	101A	100	6.2	33.6	BC - 5.0	U	U
Velcro Hool Tape H-549 Polyester-Fluorel Backing	Velcro Corporation	1592	Polyester w/ Fluoroelastomer	0.075	101A	96	6.2		SE - 1 1/2"	U	BT
Velcro Hook, Hi Grade Stainless Steel	Velcro Corporation	1593	Stainless Steel	0.085	101A	100	6.2		BC	U	U
Velcro Pile, Hi Grade Stainless Steel	Velcro Corporation	1594	Stainless Steel	0.085	101A	100	6.2		BC	U	U
Velcro H506 Polyester Hook, Beta Ground Fluorel Backing	Velcro Corporation	1210	Polyester w/ Fluoroelastomer	0.068	101A	100	6.2		BC	U	U
Velcro Pile Tape Hook 62-H572	Velcro Corporation	1771	Tape	0.063	101A	100	6.2		NI	BT	BT
Velcro Pile Tape Hook 62-H572	Velcro Corporation	1772	Tape	0.063	101B	100	6.2		SE - 2 1/2"	U	BT
Velcro Hook Tape 80H-549	Velcro Corporation	1773	Tape	0.080	101B	100	6.2		BC	U	U
Velcro Etched TFE Pile Beta Ground Fluorel Backed P539	Velcro Corporation	1213	Teflon-Fluoroelastomer	0.100	101A	100	6.2		NI	BT	BT
Velcro Pile Tape P537	Velcro Corporation	1752	Tape	0.125	101A	98	6.2		BC	U	U

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TABLE I. FLAMMABILITY OF PLASTICS, ELASTOMERS, COATINGS, FABRICS, AND OTHER SHEET MATERIALS (Continued)

Material Description, Assemblage, Etc.	Manufacturer or Source	Test No.	Composition and/or Remarks	Thickness (Inch)	Ignitor	GOX		Flame Propagation Rate Inches/Minute		Materials Rating	
						%	psia	Top Ignition	Bottom Ignition	Type I	Group I
Tenite I	Eastman Organic Chemicals Co.	586	Cellulose Acetate	0.080	101A	100	6.2	16.2	—	U	U
Tenite II	Eastman Organic Chemicals Co.	790	Cellulose butyrate	0.005	101A	100	6.2	95.0	—	U	U
Tenite II	Eastman Organic Chemicals Co.	787	Cellulose butyrate	0.010	101A	100	6.2	60.0	—	U	U
Tenite II	Eastman Organic Chemicals Co.	785	Cellulose butyrate	0.020	101A	100	6.2	40.2	—	U	U
Tenite II	Eastman Organic Chemicals Co.	783	Cellulose butyrate	0.030	101A	100	6.2	43.8	—	U	U
Tenite II	Eastman Organic Chemicals Co.	781	Cellulose butyrate	0.040	101A	100	6.2	24.0	—	U	U
Tenite II	Eastman Organic Chemicals Co.	779	Cellulose butyrate	0.050	101A	100	6.2	35.4	—	U	U
Tenite II	Eastman Organic Chemicals Co.	777	Cellulose butyrate	0.060	101A	100	6.2	31.2	—	U	U
Tenite II	Eastman Organic Chemicals Co.	776	Cellulose butyrate	0.080	101A	100	6.2	24.0	—	U	U
Tenite II	Eastman Organic Chemicals Co.	773	Cellulose butyrate	0.125	101A	100	6.2	15.6	—	U	U
Tenite II	Eastman Organic Chemicals Co.	771	Cellulose butyrate	0.250	101A	100	6.2	9.6	—	U	U
Thermofit Heat Shrink TFE-R	Thermofit Rayclad Tubes, Incorporated	538		0.004	101A	100	6.2	—	18.54	U	U
Thiokol Rubber, Compound RA-319-70T	Non-Metallic Materials Branch, MSFC	402		0.080	101A	100	6.2	4.8	—	U	U
Ti-6Al-4V	Marshall Space Flight Center	217	Titanium Alloy	0.020	101B	100	6.2		NI	I	I
Ti-5Al-2, 5Sn	Marshall Space Flight Center	216	Titanium Alloy	0.010	101B	100	6.2		NI	I	I

TABLE I. FLAMMABILITY OF PLASTICS, ELASTOMERS, COATINGS, FABRICS, AND OTHER SHEET MATERIALS (Continued)

Material Description, Assemblage, Etc.	Manufacturer or Source	Test No.	Composition and/or Remarks	Thickness (Inch)	Ignitor	GOX		Flame Propagation Rate Inches/Minute		Materials Rating	
						%	psia	Top Ignition	Bottom Ignition	Type 1	Group I
Wire Screen		1945	Stainless	0.015	101A	70	6.0		NI	S	S
Wire Screen		1946	Stainless	0.015	101B	70	6.0		NI	S	S
X-389-7	Dodge Industries	2055	Teflon-Fiberglass	0.018	101A	100	6.2		BC	U	U
X-4484 Beta Fabric Woven w/Teflon Coated Yarn	Owens-Corning Fiberglass	139	Teflon-Fiberglass	0.020	101A	100	6.2		NI	BT	BT
Zinc Chromate Primer 605-15 on 3 Mil Foil	Smith Alsop	1809	Zinc Chromate Primer	0.0003	101A	100	6.2		BC	U	U
Zinc Chromate Primer 605-15 on 15 Mil Foil	Smith Alsop	1811	Zinc Chromate Primer	0.0005	101B	100	6.2		NI	S	S
Zinc Chromate Primer 605-15 on 30 Mil Foil	Smith Alsop	1813	Zinc Chromate Primer	0.0003	101B	100	6.2		NI	S	S
Zinc Chromate Primer 605-15 on 30 Mil Foil	Smith Alsop	1812	Zinc Chromate Primer	0.0003	101A	100	6.2		NI	S	S
Zinc Chromate Primer	Glidden Paint Company	870	Applied to aluminum foil, MIL-P-8585A	0.005	101A	100	6.2		33.6	U	U
White Top Coat Over Zinc Chromate	Warren Paint Company	871	On 1-mil aluminum foil, MIL-E-5556A	0.005	101A	100	6.2		13.8	U	U

TABLE I. FLAMMABILITY OF PLASTICS, ELASTOMERS, COATINGS, FABRICS, AND OTHER SHEET MATERIALS (Concluded)

Material Description, Assemblage, Etc.	Manufacturer or Source	Test No.	Composition and/or Remarks	Thickness (Inch)	Ignitor	GOX		Flame Propagation Rate Inches/Minute		Materials Rating	
						%	psia	Top Ignition	Bottom Ignition	Type I	Group I
Viton Compound RA-344-70VA	Non-Metallic Materials Branch, MSFC	355		0.070	101A	100	6.2	0.24	5.0	U	U
Wright Sil No. 863	F. B. Wright Company	345	Silicone	0.070	101A	100	6.2	6.4	12.0	U	U
Vinylcel	Johns Manville Corporation	1648	Vinyl	1.032	101A	100	6.2		BC	U	U
Vinylcel Foam	Johns Manville Corporation	1662	Vinyl	1.000	Bunsen Burner	Air	14.7		SE - 2"	S	S
Viton 238-12-1	E. I. du Pont de Nemours & Co.	1730	Fluoroelastomer	0.085	101A	100	6.2		NI	BT	BT
Viton 238-12-1	E. I. du Pont de Nemours & Co.	1731	Fluoroelastomer	0.085	101B	100	6.2		BC	U	BT
Viton 238-12-1	E. I. du Pont de Nemours & Co.	1732	Fluoroelastomer	0.085	101B	100	6.2		SE - 1/2"	U	BT
Viton 238-26-1	E. I. du Pont de Nemours & Co.	1727	Fluoroelastomer	0.075	101A	100	6.2		NI	BT	BT
Viton 238-26-1	E. I. du Pont de Nemours & Co.	1727	Fluoroelastomer	0.075	101B	100	6.2		BC	U	BT
Viton 238-26-1	E. I. du Pont de Nemours & Co.	1727	Fluoroelastomer		101B	100	6.2		BC	U	BT
Viton 436 37H	Martin-Marietta Corporation	1786	Fluoroelastomer	0.075	101B	100	6.2		BC	U	BT
Viton A	E. I. du Pont de Nemours & Co.	1696	Fluoroelastomer	0.060	101A	70	6.0		BC	U	U
Wakefield 128 Heat Transfer Compound	Wakefield Corporation	1871		0.017	101A	70	6.0		BC	U	U
Weblon 44	Wakefield Corporation	1619	Vinyl	0.017	Bunsen Burner	Air	14.7		SE - 1"	S	S
Weblon 44	Wakefield Corporation	1658	Vinyl	0.040	Bunsen Burner	Air	14.7		NI	S	S

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TABLE II. FLAMMABILITY OF WIRE HARNESSES, CONNECTORS, AND POTTING COMPOUNDS

MATERIAL, DESCRIPTION, ASSEMBLAGE, ETC.	MANUFACTURER OR SOURCE	TEST NO.	COMPOSITION AND/OR REMARKS	% O2/ PSIA	SAMPLE WEIGHT, GRAMS	IGNITOR	IGNITION CONDITIONS					MATERIALS RATING	
							OVERLOAD IGNITION			COMBUSTION PRESSURE, PSIA	RESULTS	TYPE I	GROUP I
							IGNITION CURRENT AMPS	IGNITION TIME (SEC)	BURN TIME (SEC)				
American Super Temperature Wire	American Super Temperature Wire Co.	30		4.2/ 6.0		20 AWG	40-45	75-96		0.1-0.2	SE 4"	U	U
American Super Temperature Wire AST 5400 Type E (Dark Green)	American Super Temperature Wire Co.	24A		98/ 6.2		20 AWG	40-45	74-79	30-35	0.3	SE 4"	U	U
Bentley-Harris Sleeving Tape 66 LWA Nat. Col. (braided) Coated w/Refset L3205-6, Harness No. 64	Bentley-Harris Co.	176		70/ 6.2		20 AWG	40-60	47	148			BT	BT
C6N2ON (Polyimide)	FFP Corporation	44A		98/ 6.2		20 AWG	40-50	79-88	52-5	0.2	SE 4"	U	U
C6NLONINA (Polyimide) Teflon FEP Conductor Shielded	FFP Corporation	45		98/ 6.2		20 AWG	40-45	83-136	58-18	0.1-0.2	SE 8"	U	U
Cable, TFE, Fiberglass Overcoat	McDonnell-Douglas Corp.	34A		98/ 6.2		18 AWG	60-70	188	8	0.2	SE 4"	U	U
Cable, Triaxial	Raychem Corp.	1936		70/ 6.2		Silicone						BT	BT
Connector DAMA-15B	IIT Cannon Electrical, Inc.	167		98/ 6.2		101A	25-50	195-308	93-162	1.0	BC	U	U
Coast Pro Seal 796-80 Connector Cannon 6514		2		95/ 6.2				60-75	7 min.		BC	U	U
Coast Pro Seal 796-80 RL-3550 Coated		16		98/ 6.2			40-55	60-190	3 min.	0.5	BC	U	U
Electrical Insulated Cordage (teflon) (Light Green	Electronic Radio Automotive Wire, Cable and Cordage Company	25		98/ 6.2		20 AWG	40-45	78-94	15-17	0.3	SE 4"	U	U
Electric Radio Automotive Cable and Cordage (Light Green)	Electronic Radio Automotive Wire, Cable and Cordage Company	28A		98/ 6.4		20 AWG	40-45	72-89	20-45	0.3	SE	U	U
Electric Radio Automotive Cable and Cordage (Light Green)	Electronic Radio Automotive Wire, Cable and Cordage Company	29		98/ 6.0		20 AWG	40-45	70-82	20-40	0.2	SE	U	U

TABLE II. FAMMABILITY OF WIRE HARNESSES, CONNECTORS, AND POTTING COMPOUNDS (Continued)

MATERIAL, DESCRIPTION, ASSEMBLAGE, ETC.	MANUFACTURER OR SOURCE	TEST NO.	COMPOSITION AND/OR REMARKS	% GOX/ PSIA	SAMPLE WEIGHT, GRAMS	IGNITOR	IGNITION CONDITIONS					MATERIAL RATING	
							OVERLOAD IGNITION CURRENT AMPS	IGNITION TIME (SEC)	BURN TIME (SEC)	COMBUSTION PRESSURE, PSIA	RESULTS	TYPE I	GROUP I
Electric Radio Automotive Wire Cable and Cordage (Light Green)		31A		98/ 6.2	20 AWG		40-45	72	BC 8	0.1	BC	U	U
Firezone 101 2 Conductor Shielded	Cerro Wire & Cable Co.	65		98/ 6.2	22 AWG		25-65	480	12		SE 3	U	
Firezone 101	Cerro Wire & Cable Co.	66		98/ 6.2	22 AWG		25			0.2	SE 3	U	U
Firezone 101 Code 511, No. 161	Cerro Wire & Cable Co.	141		98/ 6.2	16 AWG		100-100	33-35	9-16	0.3	SE 3	U	U
Firezone 101, MS 27125 Code 511, No. 181	Cerro Wire & Cable Co.	142		98/ 6.2	18 AWG		60-70	133-148	8-11	0.2	SE 3	U	U
General Cable Corp. (Deep Blue)	General Cable Corp.	26		98/ 6.2	22 AWG		25	32-33	14-16	0.1	SE 5	U	U
General Cable Corp. (Light Blue)	General Cable Corp.	36		98/ 6.0	22 AWG		25-25	33-36	8-12		SE 6	U	U
General Cable Corp. (No. 22 AWG w/5 Mil Teflon)	General Cable Corp.	37		98/ 6.2	16 AWG		25-25	28-35	5-15	0.5-0.6	Silicone	U	U
General Cable	General Cable Corp.	146		98/ 6.2	14 AWG		140-140	39-47	104-112	4.2-4.5	BC	U	U
Haveg 019-FG-616	Haveg Industries, NDC	174		70/ 6.2	20 AWG		40-40	78	80	0.75	BC	U	U
Haveg Super Temp 7869679-1b	Haveg Industries, NDC	5		96.7/ 6.2	16 AWG		100-100	475-485	25-25	3.8	SE 8"	U	U
Haveg Super Temp 7869679-1b	Haveg Industries, NDC	6		96/97/ 6.2	16 AWG		65-22	26-75	15-30	0.2-0.3	SE 10"	U	U
Haveg Super Temp	Haveg Industries, NDC	7		96.3/ 6.2	16 AWG		75-185	12-185	2.3-5	0.3	SE 10"	U	U

TABLE II. FLAMMABILITY OF WIRE HARNESSES, CONNECTORS, AND POTTING COMPOUNDS (Continued)

TABLE II. FLAMMABILITY OF WIRE HARNESSES, CONNECTORS, AND POTTING COMPOUNDS

MATERIAL, DESCRIPTION ASSEMBLAGE, ETC.	MANUFACTURER OR SOURCE	TEST NO.	COMPOSITION AND/OR REMARKS	% GOX/ PSIA	SAMPLE WEIGHT, GRAMS	IGNITOR	IGNITION CONDITIONS					MATERIALS RATING	
							OVERLOAD IGNITION						
							IGNITION CURRENT AMPS	IGNITION TIME (SEC)	BURN TIME (SEC)	COMBUSTION PRESSURE, PSIA	RESULTS	TYPE I	GROUP I
HARNESS No. 8, w/L2231 Cover (R.L. Darling)	Raybestos Manhattan Co.	98		100/ 6.2		20 AWG	40	-		2.4	BC	U	U
Harness No. 8, w/10 Conductor FEP Polyimide Wire w/L3217-1 Cover	Raybestos Manhattan Co.	94		100/ 6.2		20 AWG	60-65	42-68	32		SEA	U	U
Harness No. 8, w/10 Conductor FEP Polyimide Wire w/L3217-1 Cover	Raybestos Manhattan Co.	93		100/ 6.2		20 AWG	60-60	42	32		SE	U	U
Harness No. 10 Zippertubing	Zippertubing Company	95		100/ 6.2		20 AWG	40-40			0.4	SE	U	U
Harness No. 11, w/RL-3557 Tubing	R.L. Darling Co.	97		100/ 6.2		20 AWG	40			0.4	BC	U	U
Harness No 14, Wire w/40 M39513/2 Convoluted TFE and TFE Fiberglas		101		100/ 6.2		20 AWG	40			0.3	NI	BT	BT
Harness No. 18, Stainless Steel Tubing AS316-3N	Serviar Company	96		100/ 6.2		20 AWG	40			0.3	NI	BT	BT
Harness No. 19, 10 Conductor Cable Varglas Sleeving (Black) Type MP Over 40M39573/2 FEP ML	Varflex Corp.	91A		100/ 6.2		20 AWG	60	40			NI	BT	BT
Harness No. 20, 51 Conductor Covered Varglas Teflon Covered w/Polyimide	Varflex Corp.	92		100/ 6.2		20 AWG	60	40-49			NI	BT	BT
Harness No. 21, Polyimide Covered Top w/Varglas Non Fray Sleeving	Varflex Corp.	100		100/ 6.2		20 AWG	40-50			0.3	NI	BT	BT

TABLE II. FLAMMABILITY OF WIRE HARNESSES, CONNECTORS, AND POTTING COMPOUNDS (Continued)

MATERIAL, DESCRIPTION ASSEMBLAGE, ETC.	MANUFACTURER OR SOURCE	TEST NO.	COMPOSITION AND/OR REMARKS	% GOX/ PSIA	SAMPLE WEIGHT, GRAMS	IGNITOR	IGNITION CONDITIONS					MATERIALS RATING	
							OVERLOAD IGNITION			COMBUSTION PRESSURE, PSIA	RESULTS		
							IGNITION CURRENT AMPS	IGNITION TIME (SEC)	BURN TIME (SEC)			TYPE I	GROUP I
Harness No. 22, Polymide Covered w/Bentley-Harris ML-G3 Fiberglas Braid, 10 Conductor	Astronautics Lab.	99		100/ 6.2		20 AWG	40			0.3	NI	BT	BT
Harness No. 23, Wire 40M39513/2 FEP ML TFE Fiberglas	Astronautics Lab.	102		100/ 6.2		20 AWG	40			0.3	BC	U	U
Harness No. 23, 26" Length	Astronautics Lab.	1763				Silicone					SE 1½"	U	U
Harness No. 24, 40M39513/2 Level w/ STFE-30-B Lacing Tape	Astronautics Lab.	136		100/ 6.2		20 AWG	40		NI		NI	BT	BT
Harness No. 24, MIL-W-22759, MS 21986)	Astronautics Lab.	103		100/ 6.2			40-45		SE	0.2	SE	U	U
Harness No. 25, MIL-W-22759, MS 18001-12 Teflon Insulated, 7 Wires	Astronautics Lab.	104		100/ 6.2		12 AWG	205-205	40	4"	0.3	SE 4"	U	U
Harness No. 26,40M3913/ 2, Type 30LDCB Nomex Lacing Tape	Bentley-Harris Co.	105		100/ 6.2		20 AWG	40-45	95	(98)	0.5	BC	U	U
Harness No. 26, MIL-W-22759, MS 21986, Laced w/STFE-30-B Lacing Tape	Astronautics Lab.	137		100/ 6.2		20 AWG	40	115		0.3	SE 3"	U	U
Harness No. 27 w/PV6R12B10SNS 057-0684-000	Astronautics Lab.	119		100/ 6.2		20 AWG	40-45	105	SE	0.4	SE 4"	U	U
Harness No. 28 w/PV6R12BSNC 057-0684-000	Astronautics Lab.	120		100/ 6.2		20 AWG	40-65	315	7.2	1.5	SE 6"	U	U
Harness No. 29, w/Tape ST Beta Glass	Bentley-Harris Co.	121		100/ 6.2		20 AWG	40		NI	0.4-0.5	NI	S	S

TABLE II. FLAMMABILITY OF WIRE HARNESSES, CONNECTORS, AND POTTING COMPOUNDS (Continued)

MATERIAL, DESCRIPTION, ASSEMBLAGE, ETC.	MANUFACTURER OR SOURCE	TEST NO.	COMPOSITION AND/OR REMARKS	% OXY/ PSIA	SAMPLE WEIGHT, GRAMS	IGNITOR	IGNITION CONDITIONS					MATERIALS RATING	
							OVERHEAD IGNITION			COMBUSTION PRESSURE, PSIA	RESULTS	TYPE I	GROUP I
							IGNITION CURRENT AMPS	IGNITION TIME (sec)	BURN TIME (SEC)				
Harness No. 30, w/Glass Sleeving	Bentley-Harris Co.	122		100/ 6.2		20 AWG	40	NI		0.4	NI	S	S
Harness No. 31, w/I Core 5532 TFE Tubing, Type H Varglass		106		100/ 6.2		20 AWG	40	40	NI		NI	S	S
Harness No. 32, w/TFE Sleeving, Type H Varglass CFT 16		108		100/ 6.2		20 AWG	40				NI	S	S
Harness No. 33, w/5533 TFE Tubing, Type HO Varglas CFT16		109		100/ 6.2		20 AWG	40	NI		0.4-0.5	NI	NT	NT
Harness No. 34, w/5533 TFE Tubing w/Stainless Braid		107		100/ 6.2		20 AWG	60	40	SE	0.5	SE	NT	NT
Harness No. 35, w/5533 TFE Tubing w/Stainless Braid		110		100/ 6.2		20 AWG	40			0.4	NI	S	S
Harness No. 36, I Core 5530-20-081-10 Back Shell Wire 4GM39513/2 FEP Polyimide. 10 Wires Encased in TFE Coated Fiber Braid Inside I Core Teflon Coveloted Tubing		118		100/ 6.2		20 AWG	10-40			0.3-0.6	NI	S	S
Harness No. 37, w/TFE Spiral Wrap 3/16"		123		100/ 6.2		20 AWG	55	190	20	0.4	SE 6"	U	U
Harness No. 40, Conductor K&J in Shielded Wire, Raychem Solder Sleeve		149		98/ 6.2		22 AWG	40-55	192-198			BC	U	U
Harness No. 42, MIL-W-22759 w/Woven Glass Fiber	Southern Weaving Co.	127		98/ 6.2			40-45	65-90	7-11	0.5-1.2	SE 4"	U	U

TABLE II. FLAMMABILITY OF WIRE HARNESSES, CONNECTORS, AND POTTING COMPOUNDS (Continued)

MATERIAL, DESCRIPTION, ASSEMBLAGE, ETC.	MANUFACTURER OR SOURCE	TEST NO.	COMPOSITION AND/OR REMARKS	IGNITION CONDITIONS						RESULTS	MATERIALS RATING	
				% GOX/ PSIA	SAMPLE WEIGHT, GRAMS	IGNITOR	OVERLOAD IGNITION CURRENT AMPS	OVERLOAD IGNITION TIME (SEC)	BURN TIME (SEC)	COMBUSTION PRESSURE, PSIA		TYPE I	GROUP I
Harness No. 43, 40M39, 5/2 in Aluminum Braid	Astrionic Lab.	128		98/ 6.2		20 AWG	40-50	127	410	0.5-1.0	BC	U	U
Harness No. 44, 9 Shielded Wire, 40M39526/2	Raychem Corp.	150		98/ 6.2		22 AWG	40-55	86-89		0.3-0.4	BC	U	U
Harness No. 45, Fluorel RL-3846 Tubing	Bentley-Harris Co.	132		98/ 6.2		20 AWG	40-40			0.6-0.8	SE 4"	U	BT
Harness No. 46, Viton Type 44	Bentley-Harris Co.	133		98/ 6.2		20 AWG	40			0.3-0.5	SE 3"	U	U
Harness No. 47, Type 151 Silicone Rubber	Bentley-Harris Co.	134		98/ 6.2		20 AWG	40	55		0.5-3.9	BC	U	U
Harness No. 48	Suflex Corporation	152		98/ 6.2		10 AWG	40-50		SE	0.3	SE 3"	U	U
Harness No. 49	Astrionic Lab.	151		98/ 6.2		20 AWG	40-50			0.05	BC	U	U
Harness No. 50	Astrionic Lab.	177		100/ 6.0		20 AWG	40-50				NI	BT	BT
Harness No. 51, G6168. 3-8 PV6R12B10SNS	Astrionic Lab.	171		98/ 6.2		20 AWG	40	145	17		SE 6"	U	BT
Harness No. 52, MIL-W-168-78, Type E w/Teflon Jatket	Astrionic Lab.	178		100/ 6.2		20 AWG	40-50	123			BC	U	U
Harness No. 53, Beta Glass Woven in Ribbon Jacket on Wires	Astrionic Lab.	179		100/ 6.2		20 AWG	40				BC	U	U
Harness No. 53, Beta Glass Woven in Ribbon Jacket on Wires	Astrionic Lab.	179		70/ 6.2		20 AWG	40				BC	U	U
Harness No. 54, Beta Blass Woven in and Around Jacket on Wires	Astrionic Lab.	180		100/ 6.2		20 AWG	40				BC	U	U
Harness Nc. 54, Beta Glass Woven in and Around Jacket on Wires	Astrionic Lab.	180		70/ 6.2		20 AWG	40				BC	U	U

TABLE II. FLAMMABILITY OF WIRE HARNESSES, CONNECTORS, AND POTTING COMPOUNDS (Continued)

MATERIAL, DESCRIPTION, ASSEMBLAGE, ETC.	MANUFACTURER OR SOURCE	TEST NO.	COMPOSITION AND/OR REMARKS	IGNITION CONDITIONS							MATERIAL RATING	
				% GOX/ PSIA	SAMPLE WEIGHT, GRAMS	IGNITOR	OVERLOAD IGNITION			COMBUSTION PRESSURE, PSIA	RESULTS	TYPE I	GROUP I
							IGNITION CURRENT AMPS	IGNITION TIME (SEC)	BURN TIME (SEC)				
Harness No. 56, Flat Cable 2-1/2" Wide	Astrionic Lab	156		98/ 6.2		27 AWG	10-20	86-123	10-41		SE	U	U
Harness No. 56, Flat Cable 2-1/2" Wide	Astrionic Lab.	156		70/ 6.2		27 AWG	10-15	90	15-20		SE 3	U	U
Harness No. 57, Silicone R, ITT Jacketed	Astrionic Lab	163		98/ 6.2		20 AWG	10-40	58	284		BC	U	U
Harness No. 58, w/Teflon Coated Glass Part No E779-303	Dodge Fibers Corp.	164		98/ 6.2		22 AWG	25-45	250-253	22-24		BC	U	U
Harness No. 59, w/Guide-brod Dacron Lacing Tape	Raveg Pyrad Wire Co.	165		98/ 6.2		22 AWG	25-40	200	35		BC	U	U
Harness No. 60, Flame Core Tubing w/Holes 1/16" Drilled in	MDAC-ED	166		98/ 6.2		22 AWG	25	NI				BT	S
Harness No. 61, Flat Cable (Teflon at Potted End)	Astrionic Lab	170		70/ 6.2		20 AWG	15		NI		NI	BT	BT
Harness No. 62, Bentley Harris Type 66 LW Black Fluorel (L2231 or L3217-1)	Astrionic Lab.	181		100/ 6.2		20 AWG	40-55	20-210	275-530		BC	U	U
Harness No. 63, Bentley-Harris Type 66 LW (Connects PT06C5-22-55P)	Astrionic Lab	197		100/ 6.2		20 AWG	40-55	275	937		BC	U	U
Harness No. 64	Astrionic Lab	208		100/ 6.2		20 AWG	40	NI				BT	BT
Harness No. 65	Astrionic Lab	210		100/ 6.2		20 AWG	40-45	90 90	42		BC	U	U
Harness No. 66	Astrionic Lab	211		100/ 6.2		20 AWG	40-45	90	11		BC	U	U
Harness No. 67	Astrionic Lab	212		100/ 6.2		20 AWG	40-50				BC	U	U

TABLE II. FLAMMABILITY OF WIRE HARNESSES, CONNECTORS, AND POTTING COMPOUNDS (Continued)

MATERIAL, DESCRIPTION, ASSEMBLAGE, ETC.	MANUFACTURER OR SOURCE	TEST NO.	COMPOSITION AND/OR REMARKS	% GOX/ PSIA	SAMPLE WEIGHT, GRAMS	IGNITOR	IGNITION CONDITIONS					MATERIAL RATING	
							OVERLOAD IGNITION			COMBUSTION PRESSURE, PSIA	RESULTS		
							IGNITION CURRENT AMPS	IGNITION TIME (SEC)	BURN TIME (SEC)			TYPE I	GROUP I
Harness No 68, Vinyl Tape	Astrionic Lab	213		100/ 6.2			40-50	185	15		BC	U	U
Harness No. 69	Astrionic Lab	209		100/ 6.2		20 AWG	40	8.3	15		BC	U	U
Harness No. 70, Vinyl	Astrionic Lab	214		100/ 6.2		20 AWG	40-45	95	24		BC	U	U
Harness No 73, Vinyl	Astrionic Lab	224		100/ 6.2		20 AWG		6-10	6-10		BC	U	U
Harness No. 75, Connector (Glass Filled Epoxy)	Astrionic Lab	225		100/ 6.2		26 AWG		NI	NI		NI	BT	BT
Harness No. 76, Fluorel Coated	Astrionic Lab	219		100/ 6.2		27 AWG		NI	NI			BT	BT
Harness No. 77	Astrionic Lab	222		100/ 6.2		20 AWG	40-45	85-100	10-21		BC	U	U
Harness Container Unit SIB	Bendix	103		100/ 6.2		20 AWG	40-45	85			SE 6"	U	-
Harness (Bendix) Bentley Harris Fiberlas 963-C3 Polyimide Coated (Outer)		161		98/ 6.2		20 AWG	40		NI	0.3	NI	BT	BT
Harness, N8a Convoluted Tubing, 7 Conductors, Thin Wall (30 Mil min.)	Raychem Corp.	226		100/ 6.2		16 AWG		NI	NI		NI	BT	BT
Harness, N8b Convoluted Tubing, 7 Conductors, Thick Wall (40 Mil min.)	Raychem Corp.	227		100/ 6.2		16 AWG		NI	NI		NI	BT	BT
Harness, N8C Convoluted Tubing, 7 Conductors, Thin Wall (30 Mil min.)	Raychem Corp.	229		100/ 6.2		Silicone 10 amps		35	148		SE 1½"	U	BT

TABLE II. FLAMMABILITY OF WIRE HARNESSES, CONNECTORS, AND POTTING COMPOUNDS (Continued)

MATERIAL, DESCRIPTION, ASSEMBLAGE, ETC.	MANUFACTURER OR SOURCE	TEST NO.	COMPOSITION AND/OR REMARKS	% GOX/ PSIA	SAMPLE WEIGHT, GRAMS	IGNITOR	IGNITION CONDITIONS					MATERIAL RATING	
							OVERLOAD IGNITION			COMBUSTION PRESSURE, PSIA	RESULTS		
							IGNITION CURRENT AMPS	IGNITION TIME (SEC)	BURN TIME (SEC)			TYPE I	GROUP I
Harness, NBG Convoluted Tubing, 7 Conductors, Thick Wall (40 Mil Min.)	Raychem Corp.	230		100/ 6.2		Silicone 10 amps		35	146		SE	U	BT
Harness, NBb Convoluted Tubing, Thick Wall (40 Mil min.)	Raychem Corp.	231		100/ 6.2		Silicone 10 amps		45	87		SE	U	BT
H-Zone RSS5-125 MS-27125-16	Cerro Wire and Cable Co.	143		98/ 6.2		18 AWG	100-100			0.2	SE	U	U
H-Zone RSS5-125 MA-24125, Code 532, No. 181	Cerro Wire and Cable Co.	144		98/ 6.2		18 AWG	60-65	95-105	SE 12-19		SE	U	U
Interzone X/B RSS5-129-14	Cerro Wire and Cable Co.	169		98/ 6.2		14 AWG	140-140	48-62		0.2	SE	U	U
Interzone X/B RSS5-129-14	Cerro Wire and Cable Co.	169		70/		14 AWG	140-140	50			SE	U	U
Interzone X/B RSS5-129-16	Cerro Wire and Cable Co.	168		98/ 6.2		16 AWG	100-80	25-85	SE 9"		SE	U	U
Interzone X/B RSS-129-16	Cerro Wire and Cable Co.	168		70/ 4.2		16 AWG	100-100	23-28	211		SE 7	U	U
International Telephone and Telegraph (ITT) Type (Wire) 1950 NC (Purple)		18		98/ 6.2		18 AWG	60-60	42-52	15-23	0.3	SE	U	U
ITT Type (Wire) 1173 (Gray)	MDAC-WD	19		98/ 6.2		18 AWG	60-60	53-92	28-30	0.2-0.3	SE	U	U
ITT Type (Wire) 1173 (Gray)	MDAC-WD	33		70/ 6.0		18 AWG	65-65	66-74	NI 13-15	0.2	SE 10"	U	U
ITT Type WTE 193CNC (Purple)	MDAC-WD	35		70/ 6.0		18 AWG	60-65	61-74	NI 12-20	0.2	SE 11"	U	U
ITT Type 1173 (Gray)	MDAC-WD	38A		98/ 6.2		18 AWG	60-60	55-105	20-23	0.2	SE	U	U

TABLE II. FLAMMABILITY OF WIRE HARNESSES, CONNECTORS, AND POTTING COMPOUNDS (Continued)

MATERIAL, DESCRIPTION, ASSEMBLAGE, ETC.	MANUFACTURER OR SOURCE	TEST NO.	COMPOSITION AND/OR REMARKS	% GOX/ PSIA	SAMPLE WEIGHT, GRAMS	IGNITOR	IGNITION CONDITIONS					MATERIALS RATING	
							OVERLOAD IGNITION			COMBUSTION PRESSURE, PSIA	RESULTS		
							IGNITION CURRENT AMPS	IGNITION TIME (SEC)	BURN TIME (SEC)			TYPE I	GROUP I
ITT TYPE 1173 (Gray) (Current Carrying One w/4 other Wires)		39A		98/ 6.2		19 AWG	60-60	32-34	17-33	0.3-0.5	SE	U	U
ITT C6N2ON1NA	ITT Surprenant	60		70/ 6.0		20 AWG	40-50	135-140	7-20		SE	U	U
ITT Surprenant C6N2ON	ITT Surprenant	59		70/ 6.2		20 AWG	40-45	85-121	130-14		SE	U	U
ITT Surprenant C6N2OM	ITT Surprenant	62		100/ 6.2		20 AWG	40-45	72-92	28		SE 10"	U	U
ITT Surprenant C6M12N	ITT Surprenant	63		100/ 6.2		101A	205-205	20-30	38	0.2	SE 4"	U	U
ITT Teflon Insulated Wire, MIL-C-27500 16TZN6	ITT Surprenant	4		95/ 6.2		16 AWG	105-115	12-30	93-105	1.1-0.3	SE 6"	U	U
Jacket, Braided, Teflon 7 Conductor, Coated Glass Wire	3M Company	85		98/ 6.2		20 AWG	40-45	195	18	0.1	SE 5"	U	U
Jacket, Fluorel Tubing, 7 Conductor L3217-1	R.L. Darling Co.	86		98/ 6.2		20 AWG	40-55	215	432	1.2	SE 6"	U	U
Kapton FEP (Polyimide) Ribbon Cable		138		98/ 6.2		27 AWG	20-20	5-5	SE (2-3)			U	U
Kapton FEP (Polyimide) Ribbon Cable		138		98/ 6.2		27 AWG	10-10	20-25	SE 1½" 29-57	0.4-0.5	10-10	U	U
Kel-F 82 Wire	3M Company	40A		96/ 6.2		22 AWG	25-25		SE			I	I
Kynar Solder Splices		135		98/ 6.2			40-50	40-130	25-43		BC	U	U
Mica Temp PSS5-304	Cerro Wire and Cable Co.	74		98/ 6.2		16 AWG	90-100	29-133	NI		NI	BT	BT
Mica Temp PSS5-304	Cerro Wiare and Cable Co.	147		98/ 6.2		16 AWG	100-100	16-17	58		SE 5"	BT	BT

TABLE II. FLAMMABILITY OF WIRE HARNESSES, CONNECTORS, AND POTTING COMPOUNDS (Continued)

MATERIAL, DESCRIPTION, ASSEMBLAGE, ETC.	MANUFACTURER OR SOURCE	TEST NO.	COMPOSITION AND/OR REMARKS	% GOX/ PSIA	SAMPLE WEIGHT, GRAMS	IGNITION CONDITIONS						MATERIAL RATING	
						IGNITOR	OVERLOAD IGNITION			COMBUSTION PRESSURE, PSIA	RESULTS	TYPE I	GROUP I
							IGNITION CURRENT AMPS	IGNITION TIME (SEC)	BURN TIME (SEC)				
MIL-W Cross Length Linked Polyalkene		46		98/ 6.2		20 AWG	40-45	38-68	25-45	2.6-2.8	SE	U	U
MIL-W-81844 PVC Insulated Wire		61		70/ 6.2		20 AWG	40-45	69-70	29-43		SE	U	U
MIL-W-16876, Type E		70		98/ 6.2		20 AWG	40-50	80-130	NI	0.3	SE	U	U
MIL-W-16878D, Type B-18	ITT Surprenant	89		98/ 6.2		18 AWG	120-120	6	38	0	BC	U	U
MIL-W-76B (Light Green)	Belden	90		98/ 6.2		18 AWG	120-120	7	62	0.5	BC	U	U
MS-18001-20, MIL-d-22759 Kynar Cable Ties		71		98/ 6.2			60-60	35-40	11-98	0.3-0.6	BC	U	U
Non-Burning Caulk Compound RK-3350	Raybestos-Manhatten	111		98/ 6.2		20 AWG	40-50	NI			WI	BT	BT
Polyimide Over Teflon TFE	Haveg Industries	81		98/ 6.2		20 AWG	40-50	100-130	8-8	0.2	SE	U	U
Polyimide Over Teflon TFE	Haveg Industries	82		98/ 6.2		12 AWG	205-205	40-42	8-12	0.3	SE 1"	U	U
Polyimide Coated Wire, MIL-W-81381/2	Brand Rex	83		98/ 6.2		20 AWG	40-50	130-135	12-19	0.3	SE 3"	U	U
Polyimide MIL-W-81381/2	Brand Rex	84		98/ 6.2		12 AWG	205-205	30-32	6-19	0.3	SE 4"	U	U
Polyimide FEP (Undesiccated) IIT Wire Cable	ITT Surprenant	43A		98/ 6.2			25-30	81-85	NI 48-50	0.2	SE 3"	I	I
RTV 3116 (Potted Bulkhead Connector) Beta Bagged		160		98/ 6.2		22 AWG	25-25	20-40	25		SE	U	BT
RTV Potted Light Connector		162		98/ 6.2			25	90	27		BC	U	U
RTV 881 Kel-F Covered	Dow Corning	58		98/ 6.2		22 AWG	60-60	53		0.4	SE	U	U

TABLE II. FLAMMABILITY OF WIRE HARNESSES, CONNECTORS, AND POTTING COMPOUNDS (Continued)

MATERIAL, DESCRIPTION, ASSEMBLAGE, ETC.	MANUFACTURER OR SOURCE	TEST NO.	COMPOSITION AND/OR REMARKS	% OX/ PSIA	SAMPLE WEIGHT, GRAMS	IGNITOR	IGNITION CONDITIONS					MATERIALS RATING	
							OVERLOAD IGNITION			COMBUSTION PRESSURE, PSIA	RESULTS	TYPE I	GROUP I
							IGNITION CURRENT AMPS	IGNITION TIME (SEC)	BURN TIME (SEC)				
Scotch Cast XR5038	3M Company	3		95/ 6.2			50-60	35-90	8-12 min.	2.2-2.3	BC	U	U
Scotch Cast XR5038 Coated w/RL-3550	3M Company	14		98/ 6.2			40-65	45 NI	8-12 min.		BC MI	U	U
Scotch Cast XR5038 Coated w/RL-3550	3M Company	23		68/ 6.2			55-60	80	142	0.3	SE	U	BT
Scotch Cast XR5038	3M Company	1192											
Simulated Electrical Control Aluminum Box MDAC		138		100/ 6.2		Overload			NI		SE	S	S
Stycast 2651-E-C, In Cannon 6525 Connector	Emerson & Company	1		95/ 6.2			50-55	40-75	8-11 ½ min.	2.3-2.5	BC	U	U
Stycast 2651-E-C Coated w/RL-3550	Emerson & Company	15		98/ 6.2			40-50	42-153	153	0.3	BC	U	U
Stycast 2651 w/Kel-F Protection	Emerson & Company	17		98/ 6.2			55-55	24-49	12-23		NI	U	U
Stycast Potting Compound 2762	Emerson & Company	131		98/ 6.2			100-100	15	360		BC	U	U
Techbesto AVA-T-1	Anixter Brothers, Inc.	148		98/ 6.2		14 AWG	140-145	75-82	60-65		BC	U	U
Teflon Hose, 1-¼" OD, 6" Long, Pentube		1564	Five Convolutions per inch	98/ 6.2		Silicone			NI		NI	BT	BT
Teflon Insulated Wire	Standard Wire and Cable Co.	139		98/ 6.2		18 AWG	60-65	55-62	(9-19)		SE 61	U	BT
Teflon Insulated Wire Type E	Standard Wire and Cable Co.	140		98/ 6.2		18 AWG	60-60	48-51	(6-10)		SE 6	U	BT
Teflon Wire w/Refrasel E Glass Braded over Douglas (glass braid)		175		70/ 6.2		20 AWG	40				NI	BT	BT

TABLE II. FLAMMABILITY OF WIRE HARNESSES, CONNECTORS, AND POTTING COMPOUNDS (Continued)

MATERIAL, DESCRIPTION, ASSEMBLAGE, ETC.	MANUFACTURER OR SOURCE	TEST NO.	COMPOSITION AND/OR REMARKS	% GOX/ PSIA	SAMPLE WEIGHT, GRAMS	IGNITOR	IGNITION CONDITIONS				RESULTS	MATERIALS RATING	
							OVERHEAD IGNITION			COMBUSTION PRESSURE PSIA		TYPE I	GROUP I
							IGNITION CURRENT AMPS	IGNITION TIME (SEC)	BURN TIME (SEC)				
Temporell 1501	Daylen Company	66		98/ 6.2		18 AWG	60-60	43-53		1.2-1.9	SE	U	U
Temporell 761	Daylen Company	67		98/ 6.2		18 AWG	60-60	42-47	(29-308)	1.0-1.1	BC	U	U
Temporell 1500	Daylen Company	68		98/ 6.2		18 AWG	60-60		NI		NI	BT	BT
Temporell 1501 Stycast Oven Cured 1 Hour at 100° C	Dyalen Company	69		98/ 6.2			60-60	40-49	(180-223)	0.7	BC	U	U
Temporell 760	Daylen Company	72		98/ 6.2			60-60	47-48	(292-300)	1.7-2.1	BC	U	U
Temporell 1501 Viton C328 Adhesive - 25% of 1501, 15% of C328	Daylen Company	73		98/ 6.2			60-60	34-42	42	1-1.3	SE	U	U
Temporell MS 18001-16	Daylen Company	20		98/ 6.2		16 AWG	100-100	32-36	19-21	0.2-0.3	SE	U	BT
Temporell MS 18001-16 Coated w/RL-3550	Daylen Company	21		98/ 6.2		16 AWG	100-100	16-21	(15-20)	0.1	SE	U	U
Temporell MS 18001-00	Daylen Company	22		98/ 6.2		20 AWG	45-50	80-110	(10-12)	01.-0.2	SE	U	U
Temporell F08221168S Spec. 1925XX12	Daylen Company	145		98/ 6.2			-205	27-30	(12-17)		SE	U	U
TFE Wire (Green)	Electronic & Electrical Wire, Cable and Cordage Company	87		98/ 6.2		18 AWG	120-120	4	(6)		SE	U	U
Thermofit NBG	Raycled	1941	Fluoro-elastomer	70/ 6.2	9-35 g	101A	36W	7	NI		NI	BT	BT
Thermofit NBG	Raycled	1942	Fluoro-elastomer	70/ 6.2	9-35 g	Silicone	36W	18	NI		NI	BT	BT
Thermofit NBG Post Cured	Raycled	1943	Fluoro-elastomer	70/ 6.2		101A			NI		NI	BT	BT

TABLE II. FLAMMABILITY OF WIRE HARNESSES, CONNECTORS, AND POTTING COMPOUNDS (Concluded)

TABLE II. FLAMMABILITY OF WIRE HARNESSES, CONNECTORS, AND POTTING COMPOUNDS

MATERIAL, DESCRIPTION, ASSEMBLAGE, ETC.	MANUFACTURER OR SOURCE	TEST NO.	COMPOSITION AND/OR REMARKS	% GOX/ PSIA	SAMPLE WEIGHT, GRAMS	IGNITOR	IGNITION CONDITIONS					MATERIALS RATING	
							OVERHEAD IGNITION			COMBUSTION PRESSURE, PSIA	RESULTS	TYPE I	GROUP I
							IGNITION CURRENT AMPS	IGNITION TIME (SEC)	BURN TIME (SEC)				
Thermofit NBC Post Cured	Raycled	1944	Fluoro-elastomer	70/ 6.2		Silicone			73-427	0.5-0.9	SE 6	U	U
Thermofit NBC Tubing	Raycled	1932	Heat Shrink-able Tubing	100/ 6.2		Silicone			255		SE 8	U	U
Thermofit NBC Harness No. A, 20 AWG TFE Type E 16 mil to 16878	Raychem Corp.	199		100/ 6.2		20 AWG	40-40				NI	S	S
Thermofit NBC Convoluted Harness No. B, Cable Connector Bendix P106P-14-5P w/Thermofit NBC Boot	Raychem Corp.	200		100/ 6.2		20 AWG	40-40				NI	NT	NT
Verglas Covering over Teflon Insulated Wire		172		98/ 6.2		12 AWG	205-205		NI		NI	NT	NT
NBC Harness C, 12" Bundle of 7 Conductors	Raychem Corp.	201		100/ 6.2			100-100		NI		NI	NT	NT
NBC Harness D, 12" Bundle of 7 Conductors	Raychem Corp.	202		100/ 6.2			100-100		NI	0.1	NI	NT	NT
Wire Bundle 106A, 10 Gauge, MDAC		135		100/ 6.2		Overload 250-275A			(10)		BC	U	U
Wire C6N20W-PEP Bundle	ITT	79		98/ 6.2			40-55	2 1/2-3 1/4	(75-131)	0.4-0.8	SE 6"	U	U
Wire Cable Bundle C6N20-Teflon FEP-Polyimide Coated		80		98/ 6.2			40-55	165-189	9-10)	0.2-0.4	SE 6"	U	U
Wire, Overload Test MDAC		134		100/ 6.2		Overload 250A			(10)		BC	U	U

TABLE III. CONFIGURATION TESTS

Item Description	Source/Test Request No.	Test Equipment	Test/Letter No.	Results	Rating
AiResearch Wire Bundle Part No. 61B8300 10-51, Modified by MDAC-ED Outer Covering of Spiral Wrapped Beta Fabric X4348B-F0178 Connector & Potting Compound Covered with Beta Boot	MDAC-ED SPNTR-184A & 184	100% O_2 @ 6.2 psia	135(AM 71-88)	Meets Config. Req. of MSFC Spec 101D	S
AiResearch Wire Bundle, Part No. 61B8300 10-51 Modified by AiResearch - with Double Layer Beta Bag (4484)	MDAC-ED SPNTR-185 & 185 A	100% O_2 @ 6.2 psia	136(AM 71-88)		S
AiResearch Fecal Collector Blower Motor	MSFC	100% O_2 @ 6.2 psia			S
Acoustic Muffler (Spinsulation in Aluminum Container, Felt Metal Cover)	MDAC-ED SPNTR-126	100% O_2 @ 6.2	2029		S
Cabin Pressure Relief Valve	MDAC-ED-SPNTR 316		206		S
Circuit Breaker Panel 1B75091-120	MDAC-WD-MD-9		82		S
Circuit Board Electronics Module	MDAC-WD-MD-15		128		S
Conrac ATM-TV-Monitor (NASS-19445)	Conrac CC		38		S
Console Power 1 B 75091-121	MDAC-WD		83		S
Console Power DF 139	MDAC-WD MD-9		153		S
Console Power DF 142	MDAC-WD MD-9		166		S
Debris Shields	MMC/MDA-046	100% O_2 @ 6.2 psi			S
Duct Assembly 1B77017-909	MDAC-WD-MD27	70% O_2 30% O_2 - 6.2 psia	224		S
Experiment T003 Aerosol Analyzer	Dept. of Transportation	100% O_2 @ 6.2 psia	166		S
Experiment S009 Nuclear Emulsion Package	NAVAL-Research Labs		2062		S
Experiment T002 Stowage Container	Ames Research Co.		240		S
Experiment M512 Control Panel	MSFC		196		S
Experiment S228 (3MIL AL Foil Covered Lexan)		100% O_2 @ 6.8 psi	224		S
Experiment S006 Film Magazine	MSFC	100% O_2 @ 6.2 psia	184		S

TABLE III. CONFIGURATION TESTS (Continued)

Item Description	Source/Test Request No.	Test Equipment	Test/Letter No.	Results	Rating
Experiment H-Alpha Film Magazine	MSFC	100% O_2 @ 6.2 psia	133	Meets Config. Test Req. of MSFC Spec. 101B	S
Electrical Control Panel (Airlock)	MDAC-ED-T1A-SPNTR 79		138 (AM 71-06)	Did not Meet Config. Req. of MSFC Spec 101B	U
Electrical Junction Box (Airlock)	MDAC-ED T-19		213	Meets Config. Req. of MSFC Spec 101B	S
Ergometer Electronics Assy. 50M17012	MSFC		131		
Electrical Wire Harness NBG Covered	MDAC-WD-10		200		S
Electrical Wire Bundle EJS 61-0868 NBG	MDAC-ED SPNTR 76	100% O_2 @ 6.2 psi	AM 71-06 137		S
Electrical Wire Harness Repair	MMC/MDA-089/090		301		S
Electrical Wire Bundles (MOL SIEVE)	MDAC-ED T-17		AM 71-06		S
Electrical Wire Bundles, NBG -No Vent Holes	MDAC-ED SPNTR 177		AM 7106 265-270	Did Not Meet Config. Req. of MSFC Spec. 101B	U
Electrical Wire Bundles, NBG Covered-Vent Holes	MDAC-ED SPNTR 216		275 AM 71-06	Meets Config. Req. of MSFC Spec. 101B	S
Electrical Wire Harness (Standard)	MMC/MDA 040, 095		271 197		S
Electrical-Wire Harness (Raceway Breakout)	MMC/MDA 4		199		S
Electrical Wire Harness, Beta Glass, Kapton Tape	MMC/MDA 075		304		S
Electrical Harness with Pressure-sensitive Teflon Tape	MMC MDA 092, 076		303	Did Not Meet Config. Req. of MSFC Spec. 101B	U
Electrical Wire Harness, Pressure-sensitive Teflon Tape Covered with NBG	MMC/MDA 091		302	Meets Config. Req. of MSFC Spec. 101B	S
Electrical Toggle Switch-potted and Fluorel Covered	78, 123 102 MDAC-ED SPNTR 134		241 240(AM 70-29)	Did Not Meet Config. Req. of MSFC Spec. 101B	U
Electrical Toggle Switch, Potted Plus Beta Bag 52-797-0561	MDAC-ED SPNTR 155		1934	Meets Config. Req. of MSFC Spec. 101B	S
Electrical Connector, Potted, Single Beta Bag	MDAC-ED SPNTR 130		242 AM 70-29		S
Electrical Connectors, Potted, Fluorel Coated and Single Beta Bag	MDAC-ED SPNTR 131		238 AM 70-29		S

TABLE III. CONFIGURATION TESTS (Continued)

Item Description	Source/Test Request No.	Test Equipment	Test/Letter No.	Results	Rating
Electrical Connector, Potted, Fluorel Coated Plus Two Beta Bags	MDAC-ED SPNTR 132	100% O_2 @ 6.2 psia	AM-70-29 244	Meets Config. Req. of MSFC Spec 101B	S
Electrical Connectors, Potted, Double Beta Bags	MDAC-ED SPNTR 133		245 AM 70-29	Meets Config. Req. of MSFC Spec 101B	S
Electrical Connector, Potted, Single Beta Bag	MDAC ED SPNTR 201, 130		AM 71-06 261C	Did not Meet Config. Req. of MSFC Spec. 101B	S
Electrical Connectors, Potted, Two Beta Bags	MDAC-ED SPNTR 216		277 AM 71-06	Meets Config. Req. of MSFC Spec 101B	S
NRC Coated Varglass Electrical Harness	MMC/MDA 041		273		S
Electrical Connector, Potted (New 1663) Double Wall Beta Bag	MDAC-ED SPNTR 217		278 AM 71-06	Did Not Meet Config. Req. of MSFC Spec 101B	S
Electrical Module Potted Relay Assembly	MDAC-WD-MD 60		230	Meets Config. Req. of MSFC Spec 101B	S
Electrical Junction Box with NRG Covered Wire Bundles	MDAC-ED-SPNTR 176		212	↓	S
Fluorel Coated Beta Sleeving	MMC/MDA 044		219	↓	S
Freezer Door Assembly, OWS IT 42767-1	MDAC-WD-MD 62		229	↓	S
Foam Insulation (3D) 1 inch Thick, 5 mil Aluminum Foil Covered Over Foam and Nut Plates	MDAC-WD	100% O_2 @ 6.2	77 & 78	↓	S
Flight Data File Stowage Container (Filled)	MMC/MDA		227	↓	S
Flex Duct (Silicone/Refset) p/n 61A 830 195-5	MDAC-ED-T5		187	Did Not Meet Config. Req. of MSFC Spec 101B	U
FM 34 on 0.019 in. Thick Pryalin	MMC/MDA 097	100% O_2 @ 6.2	195	Meets Config. Req. of MSFC Spec 101B	S
Heat Exchanger	MDAC-ED SPNTR 293	↓	189	↓	S
Heater Blanket Assembly	MDAC-WD-MD-30		238	↓	S
Hose Assembly	MDAC-WD-MD 65		235	Did Not Meet Config. Req. of MSFC Spec. 101B	U
Indicator Light 61B 810002	MDACED-T2	↓	284	Meets Config. Req. of MSFC Spec. 101B	S
Illumination Light Curtain	MMC/MDA-107	70/30 O_2/N_2 @ 6.2 psia	2190	↓	S
Metabolic Analyzer Electronics Package	MSFC	100% O_2 @ 6.2	176	↓	S

TABLE III. CONFIGURATION TESTS (Continued)

Item Description	Source/Test Request No.	Test Environment	Test Letter No.	Results	Rating
Item 2XB	MDAC-WD	70/6.0	191	Meets Config. Req. of 101B	S
Item 2XA		70/6.0	192		
Item 6XA		70/6.0	193		
Item 5XA		70/6.0	194		
Item 5XA		70/6.0	194		
Item 3XA		70/6.0	195		
Item 3XB		70/6.0	196		
Item 9XB, ITT, TFE Type EE		70/6.0	182		
Item 9XA, Fiberglass Sleeving, ITT Type EE 16 AWG TFE		70/6.0	183		
Item 7XA, 20 AWG, TFE-EE		70/6.0	184		
Item 4XA		70/6.0	185		
Item 8XB		70/6.0	186		
Item 8XA		70/6.0	187		
Item 1XA		70/6.0	188		
Item 6XB		70/6.0	189		
Item 6XB		70/6.0	189		
Item 2XC		70/6.0	190		S

TABLE III. CONFIGURATION TESTS (Continued)

Item Description	Source/Test Request No.	Test Equipment	Test/Letter No.	Results	Rating
Motor Fecal Collection	MDAC-WD	100% O_2 @ 6.2	158	Meets Config. Req. of MSFC Spec 101B	S
Motor, Digital Model OMA	S009		284		S
Mol-Sieve Mock up	MSFC		178		S
Motor D. C.	Globe Industries		47A		S
Motor D. C., p/n 343A, 100-10	Globe Industries		1706		S
MDA External Insulation	MMC/MDA 056	Air-14.7 psia	MDA - 14-71		S
Radio Noise Burst Monitor	ASTR	100% O_2 @ 6.2 psi	223		S
Refrigeration System Test Specimen Ser. 6-2573-12-00003	MDAC-WD		126		S
Refrigeration System Ser. 6-2573-12-0002	MDAC - WD		121		S
Refrigeration System Ser. 6-2573-12-0004	MDAC - WD		120		S
Refrigeration System Ser. 6-2573-12-0001	MDAC - WD		119		S
Refrigeration System Ser. 6-3573-36-0001	MDAC - WD		118		S
Stowage Locker & Contents (OWS)	MDAC-WD		226 219		S
Stycast 2850 GT Faying Surface Sealant	MMC/MDA 122	70% O_2/30% N_2 6.2 psia	351		S
Speaker Intercom S/#048	MDAC-ED T-2	100% O_2 @ 6.2 psia	192 193		S
Test Panel, 3" Foam w/5 Mil Aluminum Foil No. 513 Doubler	MDAC-WD	70% O_2 - 30% N_2 @ 6.2 psia	97	Meets Config. Req. of MSFC Spec. 101B	S
Test Panel, 3" w/Doubler 2 Ply 3M-425 Tape 507			94		S
Test Panel, 3" Foam w/one Ply 3M-425 Tape 505 Doubler			93		S
Test Panel, 3" Foam w/one Ply 5 Mil Al Foil 503 Doubler			92		S
Test Panel, 3" Foam w/10 Mil Foil FT-18271-501-NC Doubler			90		S
Torque Motor Armature Brush Ring	Engineering Physics Branch	100% O_2 @ 6.2 psia	1898		S

TABLE III. CONFIGURATION TESTS (Concluded)

Item Description	Source/Test Request No.	Test Equipment	Test/Letter No.	Results	Rating
Tape - Y9388/521 Polymide Composit	MDAC-ED 256 2%	100% O_2 @ 6.2 psi	2164	Meets Config. Req. of MSFC Spec. 101B	S
Tape - Y9388/032 Aluminum Composit	MDAC-ED 230		195		S
Tape - Y9388/Mosite/1062C/Aluminum Composite	MDAC-ED 285 & 286		194		S
Teleprinter Takeup Assy.	MDAC-ED		AM 71-06 128		S
Fluorel Coated Beta Fabric	MMC/MDA-047		2185		S
TV Recorder Electronics Package	RCA		241		S
Ward Room Curtain	MDAC WD-MD64				
Water Bottle			114	Did not meet Config. Req. of MSFC Spec. 101B	U
Wire Trough 1B75391-122			83	Meets Config. Req. of MSFC Spec. 101B	S
Water Heater (OWS)	MDAC-WD-MD32		239	Meets Config. Req. of MSFC Spec. 101B	S

FLAMMABILITY OF MATERIALS IN GASEOUS OXYGEN ENVIRONMENTS

By

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The information in this report has been reviewed for security classification. Review of any information concerning Department of Defense or Atomic Energy Commission program has been made by the MSFC Security Classification Officer. This report, in its entirety, has been determined to be unclassified.

This document has also been reviewed and approved for technical accuracy.

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